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TRENDS IN CATCHES AND LANDINGS
Atlantic fisheries: 1970-1991

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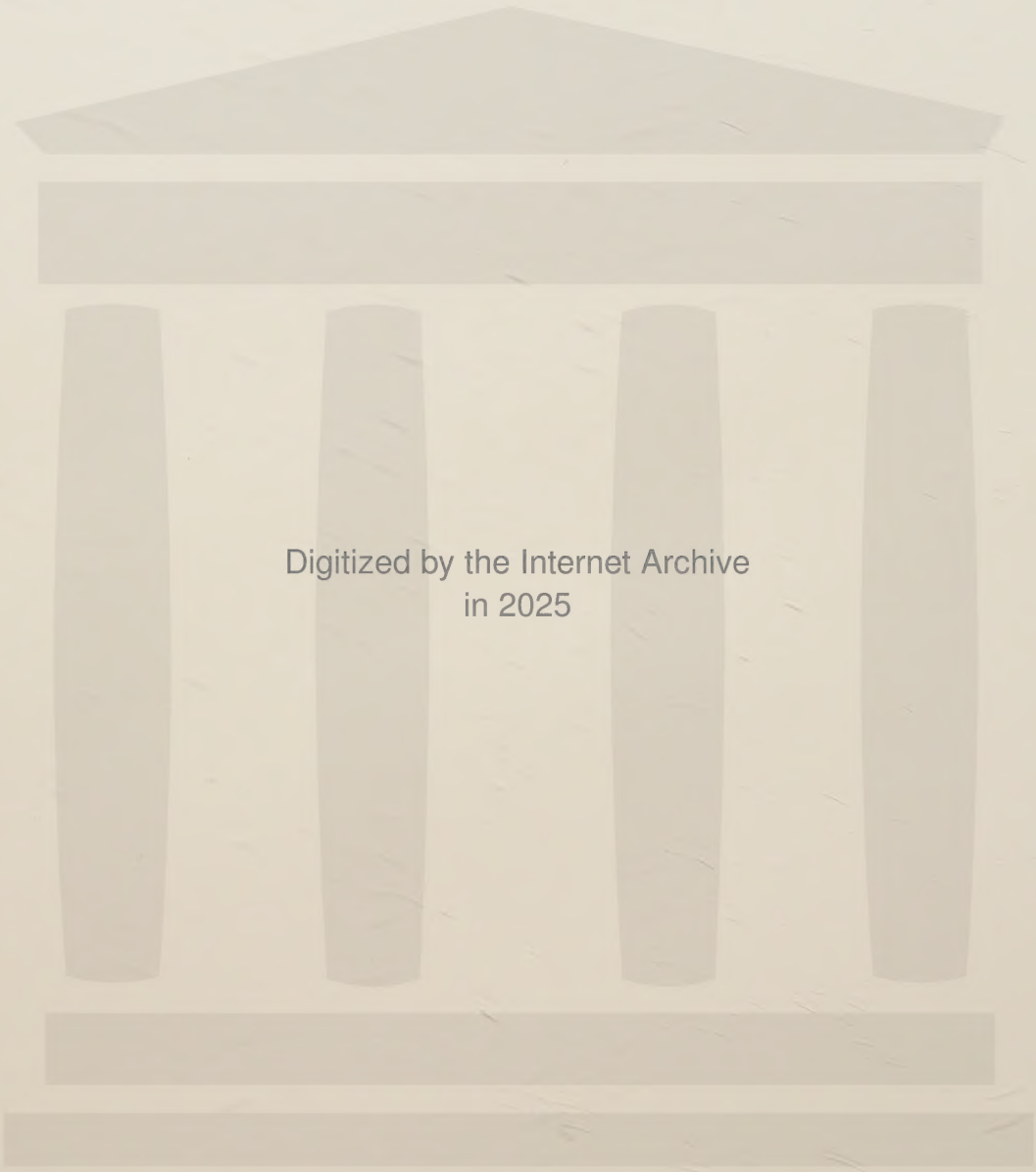

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FAO Fisheries Circular No. 855.1 FIDI/C855.1

TRENDS IN CATCHES AND LANDINGS

ATLANTIC FISHERIES: 1970 - 1991

by

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FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS
ROME, January 1993

PREPARATION OF THE DOCUMENT

The document gives the trends in fish catches by species and by area from 1970 to 1991, in graphic form for the Atlantic. It has been prepared in order to facilitate interpretation of data contained in the FAO Yearbooks of Fishery Statistics, "Catches and Landings". Included are tables indicating changes in species landed and proportions of total catches between three 10-year intervals.

The document includes trends for the entire Atlantic, as well as each major fishing area for statistical purposes. Similar documents are in preparation for the Indian and Pacific Oceans.

Stamatopoulos, C.
Trends in catches and landings. Atlantic fisheries: 1970 - 1991.
FAO Fisheries Circular. No. 855.1. Rome, FAO. 1993. 223p.

ABSTRACT

The document provides catch time series of the Atlantic fisheries over the period 1970-1991. Trends are illustrated by means of line graphs and summary tables. Also examined are proportions of groups of species to total catches and the changes in the proportions over three distinct periods in 1990, 1980 and 1970. Changes in catch time series have been examined for the whole Atlantic Ocean as well as for each of its seven major statistical areas.

The FAO Fisheries Circular is a vehicle for distribution of short and ephemeral notes, lists, etc., including provisional versions of documents to be issued later in other series.

FOREWORD

This document is the first part of three documents prepared for each of the world's oceans[1], indicating the trends in fisheries over the past 22 years. The trends are presented in graphic form from catch-in-weight data (including aquaculture) published in the FAO Yearbooks of Fishery Statistics: "Catches and Landings", 1970 to 1991. Data for 1991 are preliminary as contained in the Fishery Information, Data and Statistics Service's database FISHDAB.

Throughout the document, catch statistics are presented by means of two types of standard tabulations. Tables of the first type refer to 1990 catches and illustrate the ranking orders of the species groups and the FAO Major Fishing Areas for Statistical Purposes in relation to their proportions of the total catch for a specific fishing area, or for the total Atlantic. Tables of the second type are constructed for comparison purposes to show the proportions of the same species and areas for the years 1980 and 1970. This allows the identification of any significant changes in ranking and catch proportions between the three periods. The results are supplemented by graphical presentation of catches by species and by areas for all years 1970-1991.

For the entire Atlantic, the production of all diadromous and marine fish, crustaceans and molluscs in the seven major fishing areas has been relatively stable over the period. This stability has been obtained by shifts in areas for different species, so that declines in one area are offset by increases in another. The last plot on Page 7 indicates that catches for the entire Atlantic have remained at between 20 and 25 million t. The declines in catches for the Northeast Atlantic of some 3 million t., the Northwest of 1 million t. and Southeast of 1 million t. has been offset by increases in the Southwest of 1.4 million t., 2 million t. in the East Central and some increases in the West Central.

Of particular interest is the decline in catches of the gadoid species (cods, hakes and haddocks), illustrated in plot 2 on Page 10.

Tables 1.6 and 1.7 on Pages 15 and 16 illustrate the declining share of Atlantic cod over the three periods 1970, 1980 and 1990, declining from 45% of the total gadoid catch in 1970 to 33% in 1990. Similarly, the haddock share of the species group catch has declined from 13% to 4.6%. Correspondingly, blue whiting has increased from 0.5% to 12.5%, Argentina hake from 1.6% to 9.3% and Southern blue whiting from 0% to 4.3%. The net change for the species group is about 3 million t. overall decline.

[1] The Antarctic Oceans are included within the Atlantic, Indian and Pacific Oceans, See Map on Page 1.

While the cods, hakes and haddocks group and the jacks and mullets group have declined, the catch of the squid/cuttlefish/octopus group has increased - Plot 1 on Page 11. In 1970 the common octopus was the dominant species caught in this group, but by 1990 it had dropped to 5th place (40% to 5%) and squids n.e.i. constituted over 50% of the catch in 1990.

Table 1.3 indicates that in 1990 31.6% of all Atlantic catches came from species in decline, 49% of catches from stable stocks, with only 19.4% of catches coming from species with increasing trends. Table 1.4 indicates that three species groups have been consistently the highest during the periods 1970, 1980 and 1990.

Trends are provided for each of the major fishing areas in the Atlantic.

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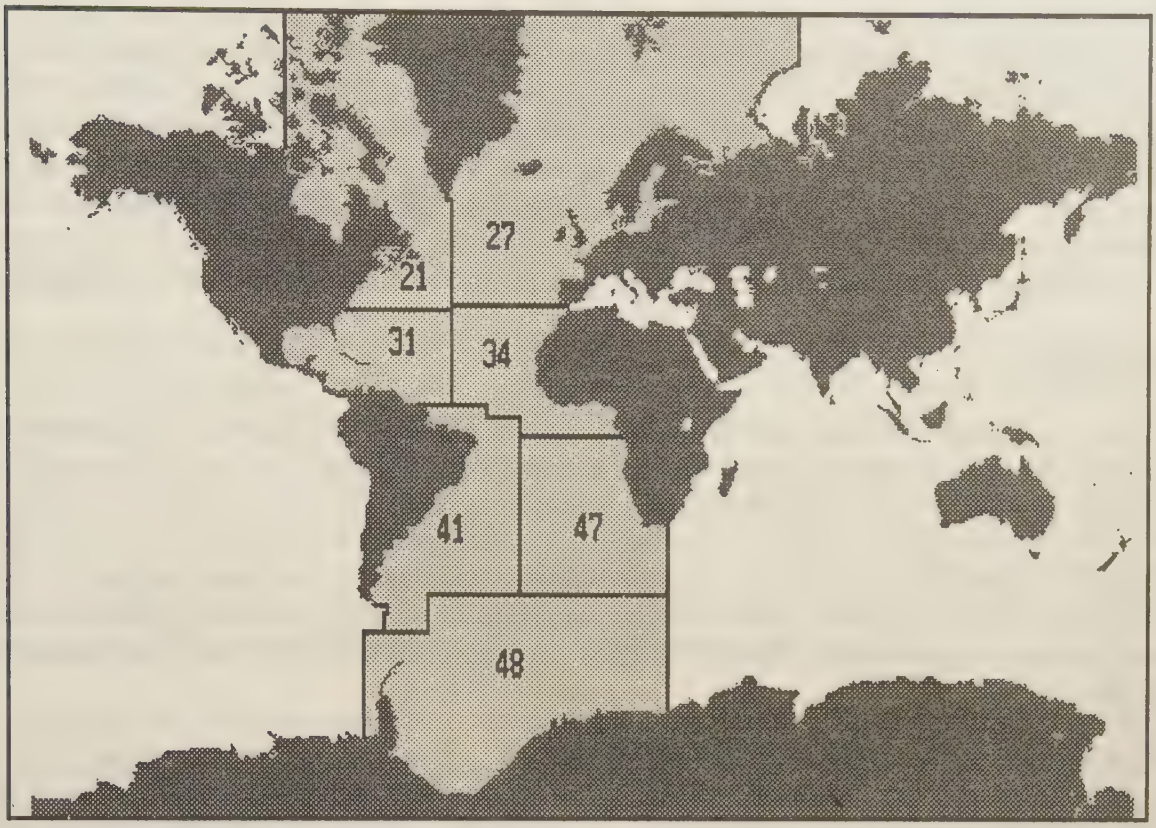
1. ATLANTIC OCEAN - MAJOR STATISTICAL AREAS



Area code	Name	Surface area in square km
21	Atlantic, Northwest	5 207 000
27	Atlantic, Northeast	16 877 000
31	Atlantic, Western Central	14 681 000
34	Atlantic, Eastern Central	13 979 000
41	Atlantic, Southwest	17 616 000
47	Atlantic, Southeast	18 594 000
48	Atlantic, Antarctic	12 298 000

NOTES ON PRESENTATION

Throughout the document catch statistics are presented by two types of tables. Tables of the first type refer to 1990 catches and illustrate the ranking orders of the FAO Major Fishing Areas for Statistical purposes in relation to their proportions of the total catch. This approach is also used for ranking species groups and species within each major species group. Tables of the second type are constructed for comparison purposes to show the proportions of the same areas, species groups and species for the years 1980 and 1970. This allows the identification of any significant changes in ranking and catch proportions between the three periods. The results are supplemented by graphical presentations of catches by area, species groups and species for all years 1970-1991.

Table type 1

Table 1.1 provides an example of major areas ranked by 1990 catches. It indicates that in 1990 Atlantic, Eastern Central was ranked 2nd with 4,075,613 MT which is equivalent to 18.5% of the total production in the Atlantic.

Table 1.3 uses the same approach for ranking species groups with respect to 1990 catches. It indicates that in 1990 the species group of herrings, sardines, anchovies, etc. was ranked 1st with 5,597,898 MT which is equivalent to 25.4% of the total production in the Atlantic.

Table 1.6 shows the ranking order and catch proportions of species of the group of cods, hakes, haddocks, etc., in 1990. It indicates that during this period Atlantic cod was ranked 1st with 1,499,153 MT which is equivalent to 33% of the total production of this group in the Atlantic.

Tables of this type also provide linear trends which have been formulated by examining the time series of catches for the period 1970-1991 and calculating relative indices of increase, expressed in percentage form, and varying from -100% to +100%. These were grouped to represent basic trend categories using the following criteria:

50% to 100%	Sharp rise	-100% to -50%	Sharp decline
5% to 50%	Rising	-50% to -5%	Declining
0% to 5%	Stable (+)	-5% to 0%	Stable (-)

Table type 2

Table 1.2 provides an example of a comparison of ranking orders and proportions applied to major fishing areas for the years 1990, 1980 and 1970. The second entry indicates that in 1970 Atlantic Eastern Central (Area 34) was ranked 4th with 11% of the total production in the Atlantic (2,439,311 MT). In 1980 it was ranked 2nd with 14.2% (3,370,071 MT) and in 1990 it remained 2nd with 18.5% and 4,075,613 MT (from Table 1.1).

Table 1.4 compares the ranking orders and proportions of catches by species group for the years 1990, 1980 and 1970. It indicates that in 1970 the species group of herrings, sardines, anchovies, etc. was ranked 2nd with 5,653,600 MT (25.5% of the 1970 production in the Atlantic). In 1980 it remained second with 5,181,925 MT (21.8%) and in 1990 it was ranked 1st (25.4% and 5,597,898 MT as indicated in Table 1.3).

Table 1.7 compares the ranking orders and proportions of catches for species of the group of cods, hakes, haddocks, etc. Its 2nd entry indicates that in 1970 blue whiting was ranked 12th with 34,800 MT equivalent to the 0.5% of the total production of this group during that year. In 1980 it was ranked 2nd with 1,115,795 MT (18.3%) and in 1990 it remained second with 567,019 MT and 12.5% as shown in Table 1.6.

Line graphs

Each plot consists of a line graph and explanatory remarks referring to a combination of country-species-area. Additional statistics, in percentage form, are provided for measuring the relative fluctuation of a time series and its linear trend.

Plotted data refer to the period 1970 - 1991 and are expressed in metric tons. Graphs are scaled from 0 to the maximum production figure in the plotted time series in order to facilitate comparisons between different sets of data. The percentages to total production (same figures as those in Table type 1) are used for the formulation of cumulative percentages indicating total proportions in a progressive manner.

The fluctuation index is expressed in percentage form and is calculated on the basis of the minimum and maximum values of a catch time series. The highest fluctuation (i.e 100%) occurs when minimum and maximum alternate on a year-to-year basis. The lowest fluctuation (i.e 0%) occurs when a time series is progressively increasing or decreasing, without breaking points in its shape.

The trend index (see note on Table 1), is also expressed in percentage form and is calculated by means of a normalized linear regression of production over time.

1.1 Total production of marine and diadromous fish, crustaceans and molluscs, in the seven statistical areas.

Table 1.1 illustrates proportions of total production of marine and diadromous fish and crustaceans and molluscs by each major fishing area in the Atlantic. Areas have been ranked according to total catches produced in 1990.

Table 1.1

ATLANTIC OCEAN

Major fishing areas ranked by 1990 catches of marine and diadromous fish, crustaceans and molluscs

AREA	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic, Northeast	1	9171304	41.5 %	Stable (-)
Atlantic, Eastern Central	2	4075613	18.5 %	Stable (+)
Atlantic, Northwest	3	3213697	14.6 %	Declining
Atlantic, Southwest	4	2 [illegible]634	9.1 %	Rising
Atlantic, Western Central	5	1[illegible]/580	7.6 %	Rising
Atlantic, Southeast 1/	6	1534952	7.0 %	Declining
Atlantic, Antarctic	7	393783	1.8 %	Rising
ATLANTIC OCEAN - TOTAL		[illegible]85563	100.0 %	Stable (-)

Major fishing countries ranked by 1990 production: USSR:14.96%, USA:10.40%, Norway:7.90%, Iceland:6.83%, Denmark:6.71%, Canada:5.77%, Spain:5.34%, France:3.20%, Brazil:2.67%, UK Scotland:2.62%, Argentina:2.47%, South Africa:2.41%, Morocco:2.40%, Netherlands:1.95%, Ghana:1.51%, Mexico:1.47%, Portugal:1.45%, Namibia:1.31%, Faeroe Is:1.28%, Senegal:1.27%, Sweden:1.15%, Venezuela:1.11%, Japan:1.06%, Ireland:1.04%, Germany FR:0.99%, Nigeria:0.99%, Poland:0.89%, UK Engld Wal:0.79%, Korea Rep:0.78%, Greenland:0.63%, Germany NL:0.52%, Other nei A:0.50%, Cuba:0.47%, A[illegible]la:0.45%, Uruguay:0.41%, Finland:0.39%, Mauritania:0.38%, Côte dIvoire:0.35%, OT[illegible]ER COUNTRIES:3.15%.

1/ Namibia extending jurisdiction to 200 m.

Table 1.2 provides a comparison of area proportions in the three periods 1990, 1980 and 1970, illustrating the change in ranking and catch proportions that have occurred during these three periods.

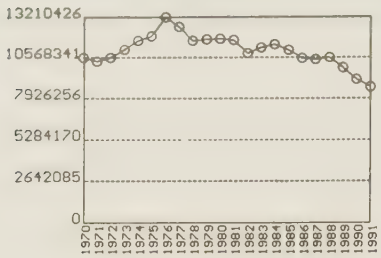
Table 1.2

ATLANTIC OCEAN

Ranking order and proportions of catches in major fishing areas for marine and diadromous fish, crustaceans and molluscs in 1990, 1980 and 1970

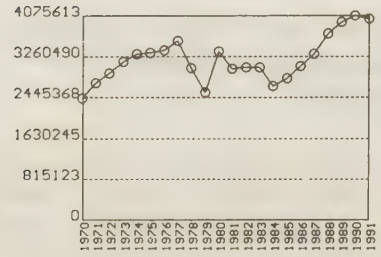
AREA	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic, Northeast	1	11814642	1 49.7%	10568670	1 47.7%
Atlantic, Eastern Central	2	3370071	2 14.2%	2439311	4 11.0%
Atlantic, Northwest	3	2867363	3 12.1%	4144224	2 18.7%
Atlantic, Southwest	4	1257514	6 5.3%	711983	6 3.2%
Atlantic, Western Central	5	1792994	5 7.5%	1421954	5 6.4%
Atlantic, Southeast	6	2233766	4 9.4%	2459974	3 11.1%
Atlantic, Antarctic	7	454539	7 1.9%	411000	7 1.9%
TOTALS		23790889	100.0%	22157116	100.0%

Graphical presentations of time series for all species by each major fishing area, following the ranking order of Table 1.1 (area totals ranked by 1990 catches), are given below.



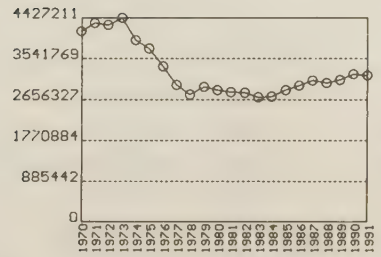
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....ALL SPECIES GROUPS
Area.....Atlantic, Northeast
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... -2.60 %
Rank..... 1 of 8 based on:1990
Percent to total..... 41.53 % , Cumulative: 41.53 %



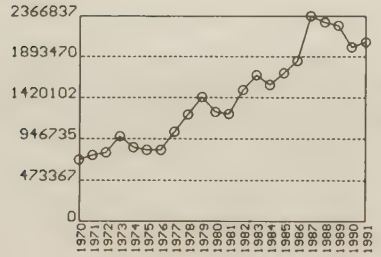
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....ALL SPECIES GROUPS
Area.....Atlantic, Eastern Central
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 4.37 %
Rank..... 2 of 8 based on:1990
Percent to total..... 18.45 % , Cumulative: 59.98 %



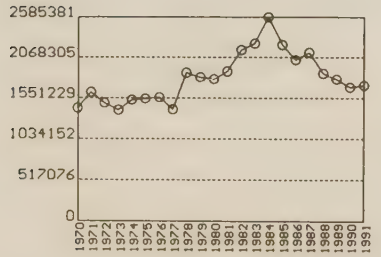
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....ALL SPECIES GROUPS
Area.....Atlantic, Northwest
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... -6.60 %
Rank..... 3 of 8 based on:1990
Percent to total..... 14.55 % , Cumulative: 74.53 %



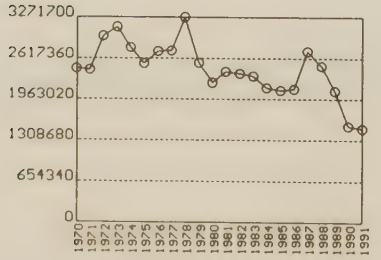
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....ALL SPECIES GROUPS
Area.....Atlantic, Southwest
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 19.76 %
Rank..... 4 of 8 based on:1990
Percent to total..... 9.09 % , Cumulative: 83.63 %



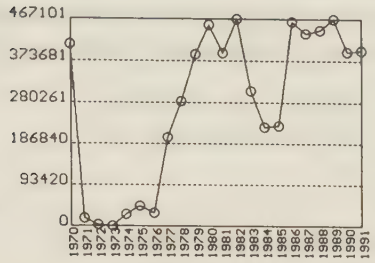
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....ALL SPECIES GROUPS
Area.....Atlantic, Western Central
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 5.46 %
Rank..... 5 of 8 based on:1990
Percent to total..... 7.64 % , Cumulative: 91.27 %



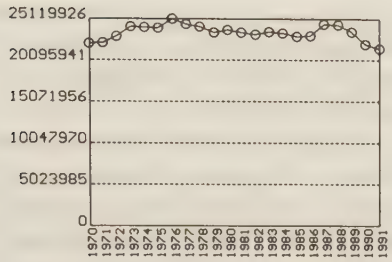
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....ALL SPECIES GROUPS
Area.....Atlantic, Southeast
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -6.62 %
Rank..... 6 of 8 based on:1990
Percent to total..... 6.95 % , Cumulative: 98.22 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....ALL SPECIES GROUPS
Area.....Atlantic, Antarctic
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 23.98 %
Rank..... 7 of 8 based on:1990
Percent to total..... 1.78 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....ALL SPECIES GROUPS
Area.....ATLANTIC OCEAN - TOTAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -0.34 %
Rank..... 8 of 8 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

Table 1.3 illustrates ISSCAAP [1/] species groups for diadromous and marine fish, crustaceans and molluscs ranked with respect to percentage of catch by species group to total production in 1990. This ranking is subsequently compared with 1980 and 1970, as provided in Table 1.4.

Table 1.3

ATLANTIC OCEAN
ISSCAAP species groups for diadromous and marine fish and crustaceans and molluscs, ranked by 1990 production

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
35-Herrings,sardines,anchovies	1	5597898	25.4 %	Stable (-)
32-Cods, hakes, haddocks,...	2	4537727	20.6 %	Declining
34-Jacks, mullets, sauries,...	3	2398818	10.9 %	Declining
33-Redfishes,basses,congers,..	4	2025978	9.2 %	Stable (+)
39-Misc. marine fishes	5	1049740	4.8 %	Stable (+)
37-Mack.,snoeks,cutlassfishes	6	1005357	4.6 %	Stable (-)
57-Squid,cuttlefish,octopuses	7	847236	3.8 %	Rising
31-Flounders,halibuts,soles,..	8	594560	2.7 %	Stable (-)
45-Shrimps, prawns, etc.	9	563011	2.6 %	Rising
36-Tunas,bonitos,billfishes,..	10	550302	2.5 %	Rising
56-Clams, cockles, arkshells..	11	513294	2.3 %	Rising
54-Mussels	12	491071	2.2 %	Rising
46-Krill,planct. crustaceans..	13	350664	1.6 %	Rising
53-Oysters	14	317335	1.4 %	Stable (-)
55-Scallops, pectens, etc.	15	286177	1.3 %	Rising
23-Salmons, trouts, smelts,...	16	273692	1.2 %	Rising
38-Sharks, rays, chimaeras,...	17	246292	1.1 %	Stable (+)
42-Sea-spiders, crabs, etc.	18	193759	0.9 %	Rising
43-Lobsters,spinyrock lobsters	19	163644	0.7 %	Rising
52-Abalones,winkles,conchs,...	20	25047	0.1 %	Rising
58-Misc. marine molluscs	21	23790	0.1 %	Declining
24-Shads, etc.	22	19286	0.1 %	Declining
47-Misc. marine crustaceans	23	6232	0.0 %	Declining
22-River eels	24	4625	0.0 %	Declining
25-Misc. diadromous fishes	25	25	0.0 %	Rising
21-Sturgeons, paddlefishes,...	26	3	0.0 %	Declining
44-Squat-lobsters	27	0	0.0 %	Sharp rise
TOTAL FOR SPECIES GROUPS		22085563	100.0 %	Stable (-)

Proportion coming from declining catches.....	31.6 %
from stable catches.....	49.0 %
from rising catches.....	19.4 %

Note: Underlined entries in the above table indicate that significant proportions of aquaculture are included in the production figures. Table 1.5 provides such data for the years 1984-1990.

1/ International Standard Statistical Classification of Aquatic Animals and Plants.

Table 1.4

ATLANTIC OCEAN
Comparison of ranks and proportions of ISSCAAP groups for diadromous and marine fish, crustaceans and molluscs in 1990, 1980 and 1970.

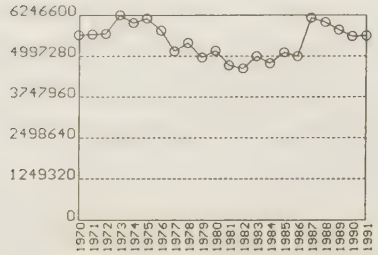
SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
35-Herrings,sardines,anchovies	1	5181925	2 21.8%	5653600	2 25.5%
32-Cods, hakes, haddocks,...	2	6102157	1 25.7%	6882000	1 31.1%
34-Jacks, mullets, sauries,...	3	4232390	3 17.8%	2564300	3 11.6%
33-Redfishes,basses,congers,..	4	2202111	4 9.3%	1742800	4 7.9%
39-Misc. marine fishes	5	935182	6 3.9%	974100	6 4.4%
37-Mack.,snoeks,cutlassfishes	6	948571	5 4.0%	1080400	5 4.9%
57-Squid,cuttlefish,octopuses	7	325824	14 1.4%	179600	14 0.8%
31-Flounders,halibuts,soles,..	8	580918	7 2.4%	725400	7 3.3%
45-Shrimps, prawns, etc.	9	428625	10 1.8%	328500	9 1.5%
36-Tunas,bonitos,billfishes,..	10	479711	8 2.0%	315816	10 1.4%
56-Clams, cockles, arkshells..	11	337115	13 1.4%	300900	11 1.4%
54-Mussels	12	415018	11 1.7%	274700	12 1.2%
46-Krill,planct. crustaceans..	13	357139	12 1.5%	0	27 0.0%
53-Oysters	14	442008	9 1.9%	406400	8 1.8%
55-Scallops, pectens, etc.	15	228887	15 1.0%	123400	15 0.6%
23-Salmons, trouts, smelts,...	16	32635	19 0.1%	28200	20 0.1%
38-Sharks, rays, chimaeras,...	17	187897	16 0.8%	207500	13 0.9%
42-Sea-spiders, crabs, etc.	18	175069	17 0.7%	117700	16 0.5%
43-Lobsters,spinyrock lobsters	19	121373	18 0.5%	110800	17 0.5%
52-Abalones,winkles,conchs,...	20	16163	22 0.1%	11000	22 0.1%
58-Misc. marine molluscs	21	28938	20 0.1%	49100	18 0.2%
24-Shads, etc.	22	21479	21 0.1%	45000	19 0.2%
47-Misc. marine crustaceans	23	2838	24 0.0%	27700	21 0.1%
22-River eels	24	6808	23 0.0%	8200	23 0.0%
25-Misc. diadromous fishes	25	94	25 0.0%	0	24 0.0%
21-Sturgeons, paddlefishes,...	26	14	26 0.0%	0	25 0.0%
44-Squat-lobsters	27	0	27 0.0%	0	26 0.0%
TOTALS		23790889	100.0%	22157116	100.0%

Table 1.5
Production (in MT) from marine culture for ISSCAAP GROUPS 45 and 23

	1984	1985	1986	1987	1988	1989	1990
Shrimps,prawns,etc.	1306	3965	2891	4062	6311	6770	9630
Salmons,trouts,etc.	41617	59029	82084	96941	146965	197142	249509

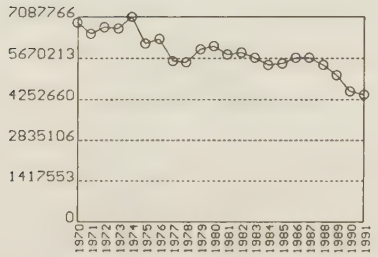
Major producers of cultured shrimps,prawns,etc. in 1990: Colombia 62.3%,Brazil 17.6%,USA 9.3%.
Major producers of cultured salmons,trouts,etc. in 1990: Norway 64.7%,UK Scotland 13.2%,Faeroe Is 5.2%.

Graphical presentations of time series for each species group, following the ranking order of Table 1.3 (ISSCAAP species group totals ranked by 1990 catches) are given below.



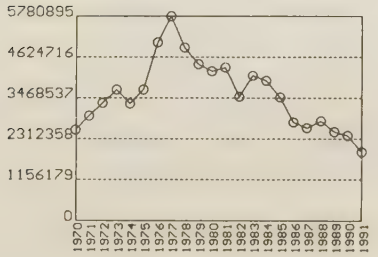
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....35-Herrings,sardines,anchovies
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... -0.95 %
Rank..... 1 of 28 based on:1990
Percent to total..... 25.35 % , Cumulative: 25.35 %



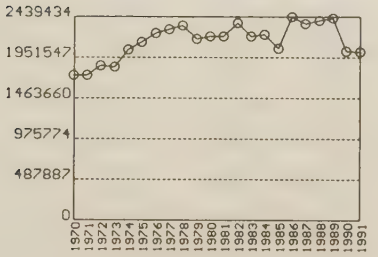
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....32-Cods, hakes, haddocks,...
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -5.64 %
Rank..... 2 of 28 based on:1990
Percent to total..... 20.55 % , Cumulative: 45.89 %



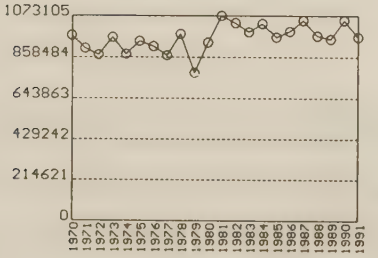
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....34-Jacks, mullets, sauries,...
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... -5.73 %
Rank..... 3 of 28 based on:1990
Percent to total..... 10.86 % , Cumulative: 56.75 %



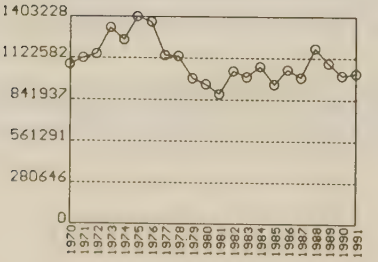
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....33-Redfishes,basses,congers,..
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 3.21 %
Rank..... 4 of 28 based on:1990
Percent to total..... 9.17 % , Cumulative: 65.93 %



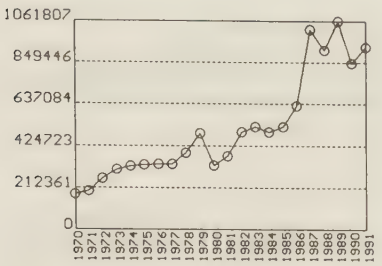
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....39-Misc. marine fishes
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 19 %
Trend..... 1.91 %
Rank..... 5 of 28 based on:1990
Percent to total..... 4.75 % , Cumulative: 70.68 %



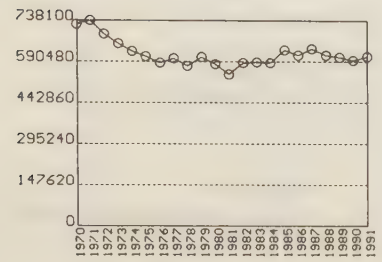
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....37-Mack.,snoeks,cutlassfishes
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... -3.39 %
Rank..... 6 of 28 based on:1990
Percent to total..... 4.55 % , Cumulative: 75.23 %



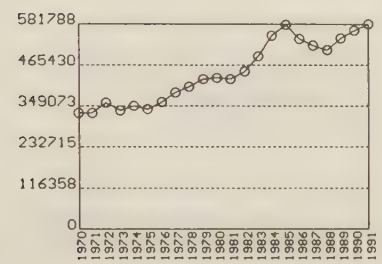
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....57-Squid,cuttlefish,octopuses
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 25.75 %
Rank..... 7 of 28 based on:1990
Percent to total..... 3.84 % , Cumulative: 79.07 %



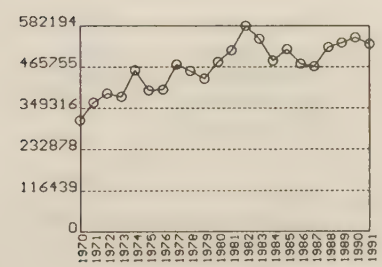
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....31-Flounders,halibuts,soles,..
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... -2.15 %
Rank..... 8 of 28 based on:1990
Percent to total..... 2.69 % , Cumulative: 81.76 %



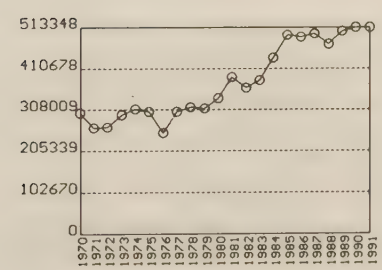
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....45-Shrimps, prawns, etc.
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 10.42 %
Rank..... 9 of 28 based on:1990
Percent to total..... 2.55 % , Cumulative: 84.31 %



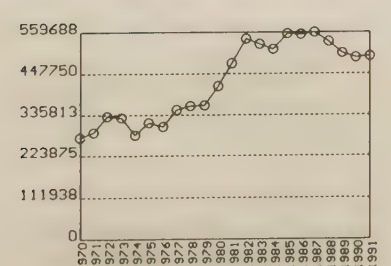
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....36-Tunas,bonitos,billfishes,..
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 6.58 %
Rank..... 10 of 28 based on:1990
Percent to total..... 2.49 % , Cumulative: 86.80 %



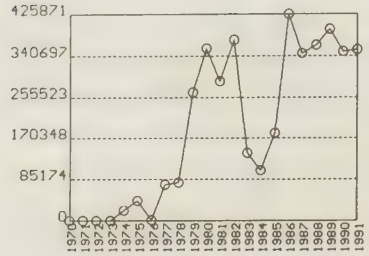
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....56-Clams, cockles, arkshells..
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 12.59 %
Rank..... 11 of 28 based on:1990
Percent to total..... 2.32 % , Cumulative: 89.13 %



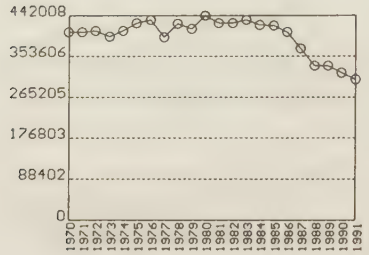
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....54-Mussels
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 11.85 %
Rank..... 12 of 28 based on:1990
Percent to total..... 2.22 % , Cumulative: 91.35 %



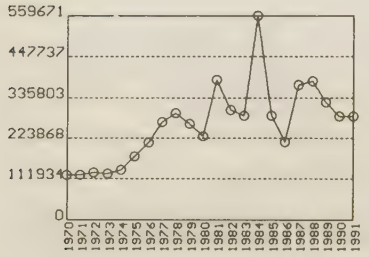
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....46-Krill,planct. crustaceans..
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 38.71 %
Rank..... 13 of 28 based on:1990
Percent to total..... 1.59 % , Cumulative: 92.94 %



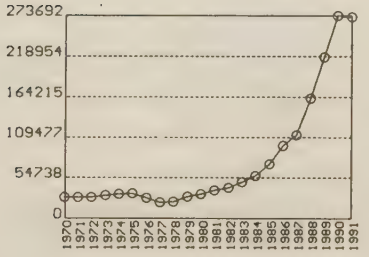
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....53-Oysters
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... -3.32 %
Rank..... 14 of 28 based on:1990
Percent to total..... 1.44 % , Cumulative: 94.37 %



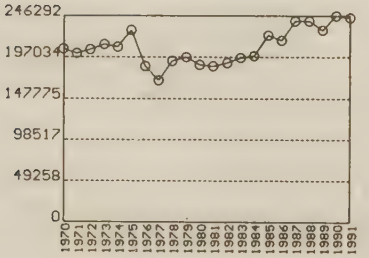
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....55-Scallops, pectens, etc.
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 15.13 %
Rank..... 15 of 28 based on:1990
Percent to total..... 1.30 % , Cumulative: 95.67 %



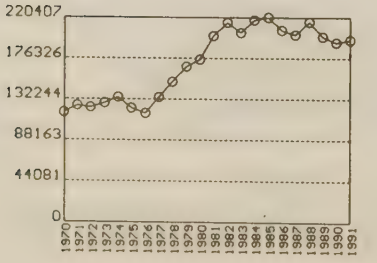
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....23-Salmons, trouts, smelts,...
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 44.62 %
Rank..... 16 of 28 based on:1990
Percent to total..... 1.24 % , Cumulative: 96.91 %



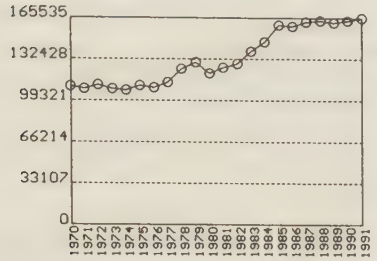
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....38-Sharks, rays, chimaeras,...
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 3.04 %
Rank..... 17 of 28 based on:1990
Percent to total..... 1.12 % , Cumulative: 98.02 %



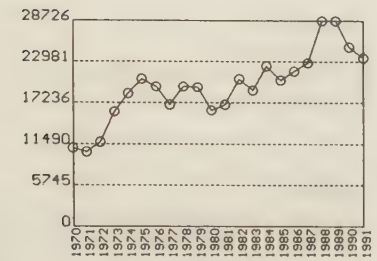
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....42-Sea-spiders, crabs, etc.
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 10.74 %
Rank..... 18 of 28 based on:1990
Percent to total..... 0.88 % , Cumulative: 98.90 %



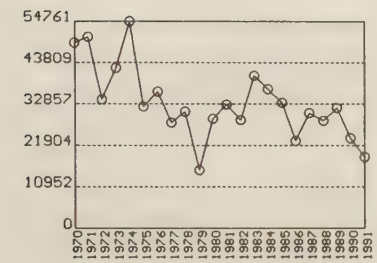
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....43-Lobsters,spinyrock lobsters
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 8.68 %
Rank..... 19 of 28 based on:1990
Percent to total..... 0.74 % , Cumulative: 99.64 %



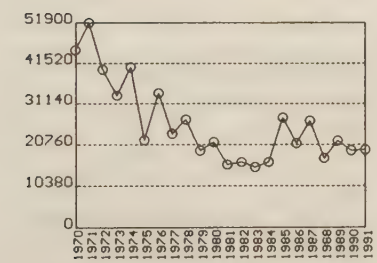
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....52-Abalones,winkles,conchs,...
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 11.48 %
Rank..... 20 of 28 based on:1990
Percent to total..... 0.11 % , Cumulative: 99.76 %



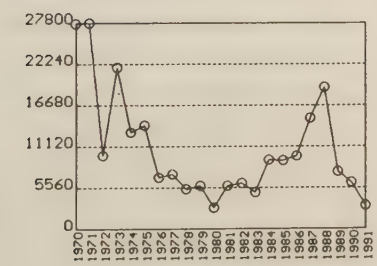
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....58-Misc. marine molluscs
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 16 %
Trend.....-10.00 %
Rank..... 21 of 28 based on:1990
Percent to total..... 0.11 % , Cumulative: 99.86 %



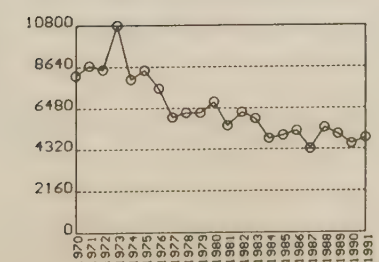
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....24-Shads, etc.
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 16 %
Trend.....-15.67 %
Rank..... 22 of 28 based on:1990
Percent to total..... 0.09 % , Cumulative: 99.95 %



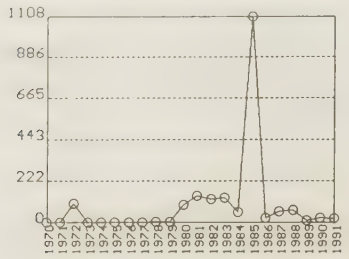
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....47-Misc. marine crustaceans
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 14 %
Trend.....-17.92 %
Rank..... 23 of 28 based on:1990
Percent to total..... 0.03 % , Cumulative: 99.98 %



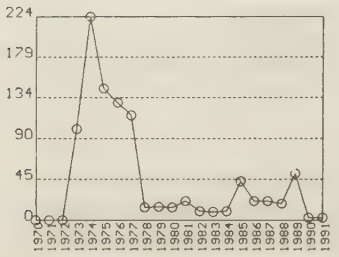
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....22-River eels
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-12.07 %
Rank..... 24 of 28 based on:1990
Percent to total..... 0.02 % , Cumulative:100.00 %



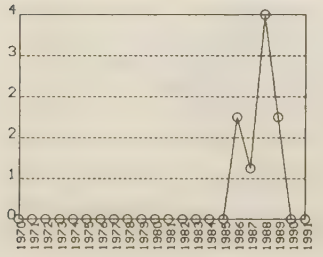
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....25-Misc. diadromous fishes
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 28.17 %
Rank..... 25 of 28 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



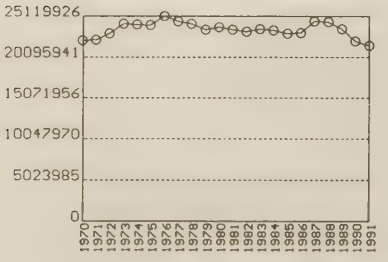
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....21-Sturgeons, paddlefishes,...
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-26.03 %
Rank..... 26 of 28 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....44-Squat-lobsters
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 62.32 %
Rank..... 27 of 28 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL FOR SPECIES GROUPS
Area.....ATLANTIC OCEAN
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -0.34 %
Rank..... 28 of 28 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

Of special interest is the relative stability in production from the Atlantic as shown in the last plot. However, it should be noted that significant shifts in production by species groups have occurred. Most noteable is the long term decline in ISSCAAP group 32 of whitefish, which is one of the more valued groups of species. Similar declines occur with ISSCAAP group 34 of jacks and mullets. In contrast, the increases in group 57 of squid, cuttlefish and octopuses, is significant.

Changes in the three ISSCAAP groups 32, 34 and 57 and their composition is given below (Tables 1.6 - 1.11).

Table 1.6

ATLANTIC OCEAN

Ranking order and proportions of catches in ISSCAAP group 32 (cods, hakes, haddocks, etc.), in 1990.

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic cod	1	1499153	33.0 %	Declining
Blue whiting(=Poutassou)	2	567019	12.5 %	Rising
Saithe(=Pollock)	3	428206	9.4 %	Declining
Argentine hake	4	421134	9.3 %	Rising
Cape hakes	5	392161	8.6 %	Declining
Norway pout	6	295893	6.5 %	Declining
Haddock	7	207972	4.6 %	Declining
Southern blue whiting	8	193597	4.3 %	Rising
Whiting	9	91174	2.0 %	Declining
Silver hake	10	90819	2.0 %	Declining
European hake	11	79170	1.7 %	Stable (-)
Ling	12	56347	1.2 %	Stable (+)
Tusk(=Cusk)	13	44962	1.0 %	Stable (+)
White hake	14	20330	0.5 %	Stable (+)
Grenadiers	15	19987	0.4 %	Sharp rise
Blue grenadiers	16	18947	0.4 %	Sharp rise
Pouting(=Bib)	17	18944	0.4 %	Stable (-)
Pollack	18	18399	0.4 %	Rising
Blue ling	19	17326	0.4 %	Rising
Senegalese hake	20	15525	0.3 %	Declining
Patagonian grenadier	21	10905	0.2 %	Sharp rise
Roundnose grenadier	22	7774	0.2 %	Declining
Gadiformes nei	23	6135	0.1 %	Rising
Patagonian hake	24	4899	0.1 %	Sharp rise
Moras	25	2663	0.1 %	Rising
Red hake	26	2489	0.1 %	Sharp decl
Brazilian codling	27	2307	0.1 %	Sharp rise
TOTAL CODS, HAKES, ETC.		4537727	100.0 %	Declining

Proportion coming from declining catches.....	66.7 %
from stable catches.....	4.9 %
from rising catches.....	28.4 %

Table 1.7

ATLANTIC OCEAN

Comparison of ranks and proportions of ISSCAAP 32 (cods, hakes, haddocks, etc.) in 1990, 1980 and 1970.

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic cod	1	2207727	1 36.2%	3104900	1 45.1%
Blue whiting(=Poutassou)	2	1115795	2 18.3%	34800	12 0.5%
Saithe(=Pollock)	3	432860	4 7.1%	641700	4 9.3%
Argentine hake	4	354708	6 5.8%	108100	10 1.6%
Cape hakes	5	318076	7 5.2%	765300	3 11.1%
Norway pout	6	581021	3 9.5%	308400	5 4.5%
Haddock	7	375765	5 6.2%	914300	2 13.3%
Southern blue whiting	8	78038	9 1.3%	0	26 0.0%
Whiting	9	190454	8 3.1%	226500	7 3.3%
Silver hake	10	62305	11 1.0%	222100	8 3.2%
European hake	11	74424	10 1.2%	122200	9 1.8%
Ling	12	56493	12 0.9%	47700	11 0.7%
Tusk(=Cusk)	13	55625	13 0.9%	30100	14 0.4%
White hake	14	24950	16 0.4%	11800	17 0.2%
Grenadiers	15	737	27 0.0%	1500	24 0.0%
Blue grenadiers	16	0	31 0.0%	0	30 0.0%
Pouting(=Bib)	17	23536	17 0.4%	15600	15 0.2%
Pollack	18	17855	19 0.3%	5700	21 0.1%
Blue ling	19	36817	14 0.6%	6700	20 0.1%
Senegalese hake	20	30042	15 0.5%	11300	18 0.2%
Patagonian grenadier	21	6642	21 0.1%	0	29 0.0%
Roundnose grenadier	22	22584	18 0.4%	31700	13 0.5%
Gadiformes nei	23	6639	22 0.1%	13800	16 0.2%
Patagonian hake	24	0	32 0.0%	0	31 0.0%
Moras	25	0	35 0.0%	0	34 0.0%
Red hake	26	3426	24 0.1%	9700	19 0.1%
Brazilian codling	27	251	28 0.0%	0	27 0.0%
TOTALS		6102157	100.0%	6882000	100.0%

Table 1.8

ATLANTIC OCEAN

Ranking order and proportions of catches in ISSCAAP group 34 (jacks, mullets, sauries, etc.), in 1990.

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Capelin	1	981090	40.9 %	Declining
Atlantic horse mackerel	2	405119	16.9 %	Stable (+)
Cape horse mackerel	3	345646	14.4 %	Rising
Jack and horse mackerels nei	4	274029	11.4 %	Declining
Cunene horse mackerel	5	115977	4.8 %	Declining
Mullets nei	6	50319	2.1 %	Declining
Lanternfishes	7	23623	1.0 %	Sharp rise
Jacks, crevalles, nei	8	22162	0.9 %	Stable (+)
False scad	9	18349	0.8 %	Rising
Atlantic bumper	10	16625	0.7 %	Rising
Bluefish	11	16070	0.7 %	Declining
Flathead grey mullet	12	15716	0.7 %	Rising
Pelagic percomorphs nei	13	14959	0.6 %	Declining
Barracudas	14	12133	0.5 %	Declining
Carangids nei	15	11978	0.5 %	Declining
Threadfins, tasselfishes nei	16	9279	0.4 %	Declining
Lesser African threadfin	17	8440	0.4 %	Rising
Scads	18	7743	0.3 %	Declining
Atlantic pomfret	19	6184	0.3 %	Rising
Lookdown fish	20	6050	0.3 %	Stable (-)
Crevalle jack	21	5378	0.2 %	Declining
Common dolphinfish	22	4508	0.2 %	Stable (-)
Atlantic butterfish	23	2965	0.1 %	Declining
Bigeye scad	24	2820	0.1 %	Stable (-)
Brazilian mullet	25	2741	0.1 %	Rising
Flyingfishes nei	26	2701	0.1 %	Rising
Atlantic moonfish	27	2346	0.1 %	Stable (-)
Leerfish(=Garrick)	28	1939	0.1 %	Rising
Amberjacks nei	29	1592	0.1 %	Rising
Garfish	30	1386	0.1 %	Declining
TOTAL JACKS, MULLETS, ETC.		2398818	100.0 %	Declining

Proportion coming from declining catches.....	62.7 %
from stable catches.....	18.5 %
from rising catches.....	18.8 %

Table 1.9

ATLANTIC OCEAN

Comparison of ranks and proportions of ISSCAAP 34 (jacks, mullets, sauries, etc.) in 1990, 1980 and 1970.

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Capelin	1	2590278	1 61.2%	1512400	1 59.0%
Atlantic horse mackerel	2	137980	4 3.3%	249300	3 9.7%
Cape horse mackerel	3	570091	3 13.5%	64900	6 2.5%
Jack and horse mackerels nei	4	576558	2 13.6%	297100	2 11.6%
Cunene horse mackerel	5	104915	5 2.5%	165700	4 6.5%
Mullets nei	6	64752	6 1.5%	88800	5 3.5%
Lanternfishes	7	0	53 0.0%	0	52 0.0%
Jacks, crevalles, nei	8	36067	7 0.9%	20900	9 0.8%
False scad	9	4355	20 0.1%	0	42 0.0%
Atlantic bumper	10	3347	22 0.1%	2600	21 0.1%
Bluefish	11	18280	9 0.4%	37100	7 1.5%
Flathead grey mullet	12	7155	14 0.2%	3500	17 0.1%
Pelagic percomorphs nei	13	6235	15 0.2%	7700	15 0.3%
Barracudas	14	16506	10 0.4%	8400	14 0.3%
Carangids nei	15	5339	18 0.1%	800	28 0.0%
Threadfins, tasselfishes nei	16	19239	8 0.5%	24600	8 1.0%
Lesser African threadfin	17	5685	17 0.1%	200	37 0.0%
Scads	18	12813	11 0.3%	10600	13 0.4%
Atlantic pomfret	19	7668	13 0.2%	0	45 0.0%
Lookdown fish	20	4368	19 0.1%	3200	19 0.1%
Crevalle jack	21	10457	12 0.3%	14700	11 0.6%
Common dolphinfish	22	2500	23 0.1%	3700	16 0.1%
Atlantic butterfish	23	6159	16 0.2%	10800	12 0.4%
Bigeye scad	24	1498	29 0.0%	1900	23 0.1%
Brazilian mullet	25	2062	24 0.1%	1100	27 0.0%
Flyingfishes nei	26	1933	26 0.1%	2800	20 0.1%
Atlantic moonfish	27	1500	28 0.0%	1400	25 0.1%
Leerfish(=Garrick)	28	170	40 0.0%	0	39 0.0%
Amberjacks nei	29	541	34 0.0%	600	30 0.0%
Garfish	30	2034	25 0.1%	3400	18 0.1%
TOTALS		4232390	100.0%	2564300	100.0%

Table 1.10

ATLANTIC OCEAN
Ranking order and proportions of catches in ISSCAAP group 57 (squids, cuttlefishes, octopuses, etc.), in 1990.

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Squids nei	1	451559	53.3 %	Rising
Octopuses	2	114823	13.6 %	Rising
Argentine shortfin squid	3	68781	8.1 %	Rising
Cuttlefishes, bobtail squids	4	64595	7.6 %	Rising
Common octopus	5	42164	5.0 %	Declining
Common squids	6	30459	3.6 %	Rising
Shortfin(Northern)squid	7	25150	3.0 %	Declining
Longfin squid	8	16251	1.9 %	Stable (-)
Patagonian squid	9	12273	1.5 %	Sharp rise
Cephalopods nei	10	9351	1.1 %	Sharp rise
Common cuttlefish	11	6775	0.8 %	Declining
Chokker squid	12	4986	0.6 %	Rising
TOTAL SQUIDS, OCTOPUSES, ETC.		847236	100.0 %	Rising

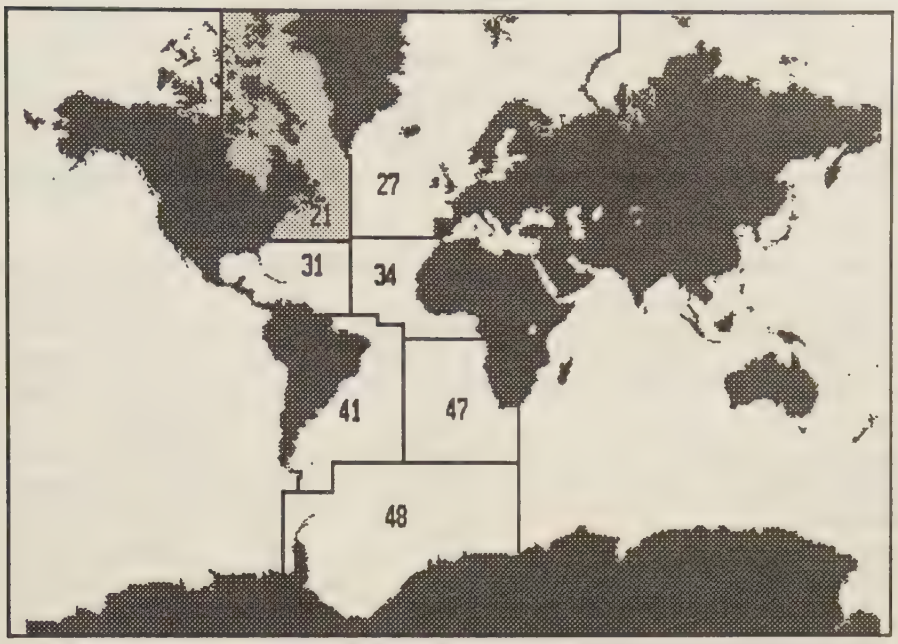
Proportion coming from declining catches.....	8.7 %
from stable catches.....	1.9 %
from rising catches.....	89.4 %

Table 1.11

ATLANTIC OCEAN
Comparison of ranks and proportions of ISSCAAP 57 (squids, cuttlefishes, octopuses, etc.) in 1990, 1980 and 1970.

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Squids nei	1	49977	3 15.3%	21000	3 11.7%
Octopuses	2	42602	4 13.1%	21500	2 12.0%
Argentine shortfin squid	3	9827	8 3.0%	1300	10 0.7%
Cuttlefishes, bobtail squids	4	35516	5 10.9%	20800	4 11.6%
Common octopus	5	52291	2 16.1%	72400	1 40.3%
Common squids	6	16144	7 5.0%	13900	6 7.7%
Shortfin(Northern)squid	7	88666	1 27.2%	1700	9 1.0%
Longfin squid	8	23612	6 7.3%	15700	5 8.7%
Patagonian squid	9	0	13 0.0%	0	13 0.0%
Cephalopods nei	10	0	14 0.0%	0	14 0.0%
Common cuttlefish	11	2323	10 0.7%	8600	7 4.8%
Chokker squid	12	1873	11 0.6%	300	11 0.2%
TOTALS		325824	100.0%	179600	100.0%

2. ATLANTIC, NORTHWEST (Area 21)



Major producers of fish, crustaceans and molluscs (1990 ranking): USA:43.29%, Canada:39.66%, USSR:6.13%, Greenland:3.97%, Portugal:2.10%, Spain:0.90%, Cuba:0.86%, Korea Rep:0.77%, Japan:0.45%, Norway:0.43%, Germany NL:0.42%, Germany FR:0.29%, St Pier Miqu:0.23%, OTHER COUNTRIES:0.52%.

Major species and percentages based on 1990 ranking: Atlantic cod:17.06%, Atlantic menhaden:12.39%, Atlantic herring:9.86%, Sea scallop:6.81%, Capelin:5.77%, Surf clam:5.76%, Atlantic redfishes:5.66%, Ocean quahog:5.57%, Silver hake:2.85%, Northern prawn:2.80%, American lobster:2.33%, Atlantic mackerel:2.06%, Blue crab:1.85%, Greenland halibut:1.66%, Saithe(=Pollock):1.57%, Amer. plaice(=Long rough dab):1.33%, Skates:1.06%, OTHER SPECIES:13.61%.

2.1 Production of diadromous fish (ISSCAAP GROUPS 21-25).

Table 2.1.1

ATLANTIC, NORTHWEST
Diadromous fish (ISSCAAP GROUPS 21-25), ranked by 1990 production

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Alewife	1	9458	44.6 %	Declining
Atlantic salmon	2	8887	41.9 %	Rising
American shad	3	1292	6.1 %	Declining
Rainbow smelt	4	1060	5.0 %	Declining
American eel	5	284	1.3 %	Declining
Chars nei	6	210	1.0 %	Declining
Trouts nei	7	22	0.1 %	Rising
Sturgeons nei	8	3	0.0 %	Rising
Blueback shad	9	0	0.0 %	Declining
TOTAL DIADROMOUS		21216	100.0 %	Declining

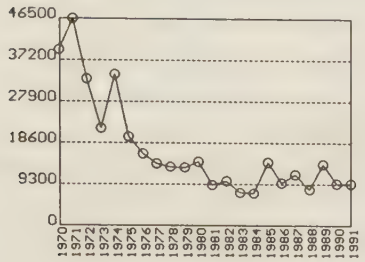
Proportion coming from declining catches.....	58.0 %
from stable catches.....	0.0 %
from rising catches.....	42.0 %

Major fishing countries ranked by 1990 production: Canada:72.32%, USA:26.15%, Greenland:1.47%, Germany NL:0.07%.

Table 2.1.2

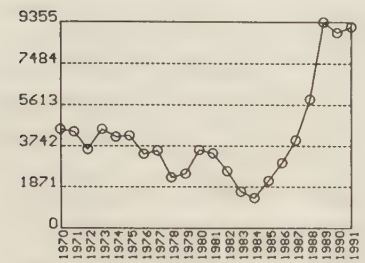
ATLANTIC, NORTHWEST
Ranking order and proportions of diadromous species (ISSCAAP GROUPS 21-25), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Alewife	1	14452	1 63.7%	39500	1 79.0%
Atlantic salmon	2	3581	2 15.8%	4500	2 9.0%
American shad	3	985	4 4.3%	2900	3 5.8%
Rainbow smelt	4	2302	3 10.1%	1900	4 3.8%
American eel	5	839	5 3.7%	900	5 1.8%
Chars nei	6	447	6 2.0%	300	6 0.6%
Trouts nei	7	83	7 0.4%	0	7 0.0%
Sturgeons nei	8	14	8 0.1%	0	8 0.0%
Blueback shad	9	0	9 0.0%	0	9 0.0%
TOTALS		22703	100.0%	50000	100.0%



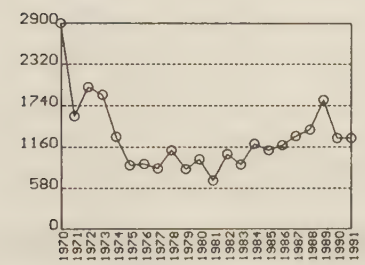
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Alewife
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-27.56 %
Rank..... 1 of 6 based on:1990
Percent to total..... 44.58 % , Cumulative: 44.58 %



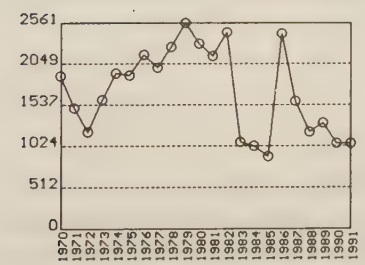
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic salmon
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 12.09 %
Rank..... 2 of 6 based on:1990
Percent to total..... 41.89 % , Cumulative: 86.47 %



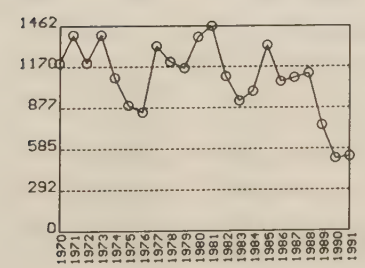
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....American shad
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... -6.62 %
Rank..... 3 of 6 based on:1990
Percent to total..... 6.09 % , Cumulative: 92.56 %



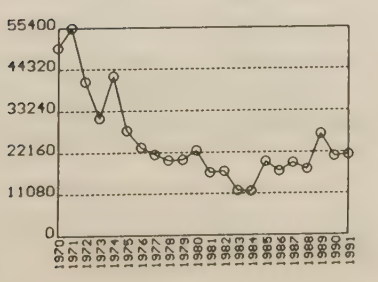
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Rainbow smelt
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... -6.19 %
Rank..... 4 of 6 based on:1990
Percent to total..... 5.00 % , Cumulative: 97.55 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER DIADROMOUS
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... -7.27 %
Rank..... 5 of 6 based on:1990
Percent to total..... 2.44 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL DIADROMOUS
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend.....-17.64 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

2.2 Production of flounders, halibuts, soles, etc. (ISSCAAP GROUP 31).

Table 2.2.1

ATLANTIC, NORTHWEST
Flounders, halibuts, soles, etc. (ISSCAAP GROUP 31), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Greenland halibut	1	52926	33.3 %	Stable (-)
Amer. plaice(=Long rough dab)	2	42312	26.6 %	Declining
Yellowtail flounder	3	26455	16.6 %	Declining
Witch flounder	4	13484	8.5 %	Declining
Winter flounder	5	11615	7.3 %	Stable (-)
Summer flounder	6	4045	2.5 %	Rising
Atlantic halibut	7	3329	2.1 %	Rising
Flatfishes nei	8	2994	1.9 %	Rising
Windowpane flounder	9	1955	1.2 %	Rising
TOTAL FLOUNDERS, SOLES, ETC.		159115	100.0 %	Declining

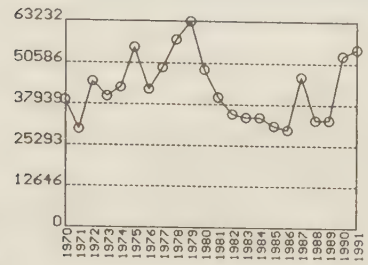
Proportion coming from declining catches.....	51.7 %
from stable catches.....	40.6 %
from rising catches.....	7.7 %

Major fishing countries ranked by 1990 production: Canada:51.33%, USA:19.63%, Portugal:8.36%, Greenland:4.74%, Korea Rep:4.58%, Norway:2.90%, Spain:2.06%, Japan:1.93%, Faeroe Is:1.90%, USSR:1.74%, France:0.41%, St Pier Miqu:0.37%, Cuba:0.03%, Germany FR:0.02%, Germany NL:0.01%.

Table 2.2.2

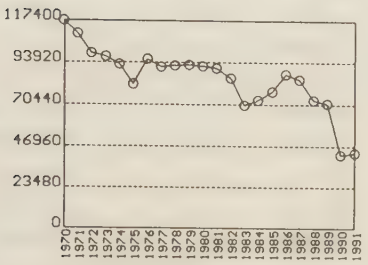
ATLANTIC, NORTHWEST
Ranking order and proportions of flounders, halibuts, etc., in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Greenland halibut	1	48709	2 21.1%	39100	4 13.5%
Amer. plaice(=Long rough dab)	2	91952	1 39.9%	117400	1 40.6%
Yellowtail flounder	3	34896	3 15.1%	66900	2 23.2%
Witch flounder	4	15519	5 6.7%	41400	3 14.3%
Winter flounder	5	20716	4 9.0%	17000	5 5.9%
Summer flounder	6	10704	6 4.6%	2600	6 0.9%
Atlantic halibut	7	2771	8 1.2%	2300	7 0.8%
Flatfishes nei	8	4440	7 1.9%	2200	8 0.8%
Windowpane flounder	9	922	9 0.4%	0	9 0.0%
TOTALS		230629	100.0%	288900	100.0%



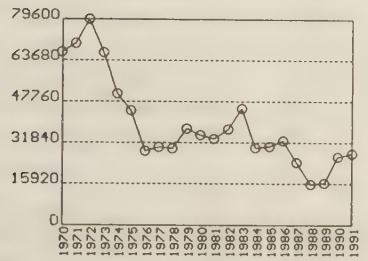
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Greenland halibut
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -0.89 %
Rank..... 1 of 6 based on:1990
Percent to total..... 33.26 % , Cumulative: 33.26 %



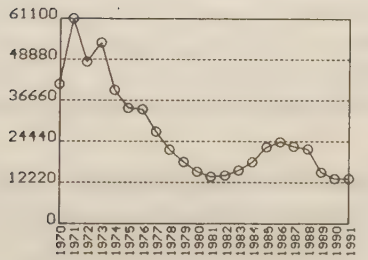
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Amer. plaice(=Long rough dab)
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... -9.71 %
Rank..... 2 of 6 based on:1990
Percent to total..... 26.59 % , Cumulative: 59.85 %



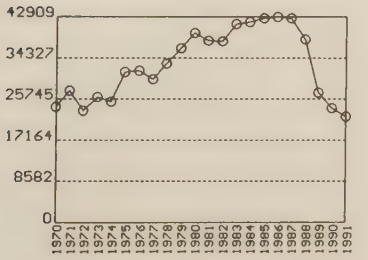
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Yellowtail flounder
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend.....-19.65 %
Rank..... 3 of 6 based on:1990
Percent to total..... 16.63 % , Cumulative: 76.48 %



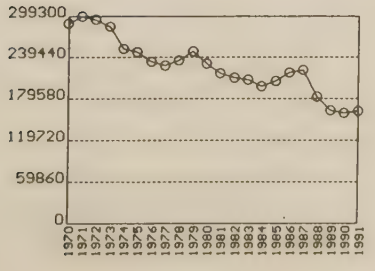
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Witch flounder
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 4 %
Trend.....-22.51 %
Rank..... 4 of 6 based on:1990
Percent to total..... 8.47 % , Cumulative: 84.96 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER FLOUNDERS, SOLES, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 4.27 %
Rank..... 5 of 6 based on:1990
Percent to total..... 15.04 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL FLOUNDERS, SOLES, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... -9.24 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

2.3 Production of cods, hakes, haddocks, etc. (ISSCAAP GROUP 32).

Table 2.3.1

ATLANTIC, NORTHWEST
Cods, hakes, haddocks, etc. (ISSCAAP GROUP 32), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic cod	1	543085	73.3 %	Declining
Silver hake	2	90819	12.3 %	Declining
Saithe(=Pollock)	3	49845	6.7 %	Rising
Haddock	4	25332	3.4 %	Stable (-)
White hake	5	20330	2.7 %	Stable (+)
Tusk(=Cusk)	6	4769	0.6 %	Declining
Roundnose grenadier	7	3931	0.5 %	Declining
Red hake	8	2489	0.3 %	Sharp decl
Gadiformes nei	9	514	0.1 %	Sharp rise
Greenland cod	10	297	0.0 %	Stable (+)
Atlantic tomcod	11	10	0.0 %	Declining
Roughhead grenadier	12	1	0.0 %	Sharp rise
Blue whiting(=Poutassou)	13	0	0.0 %	Declining
Blue antimora	14	0	0.0 %	Sharp rise
Ling	15	0	0.0 %	Declining
TOTAL CODS, HAKES, ETC.		741422	100.0 %	Declining

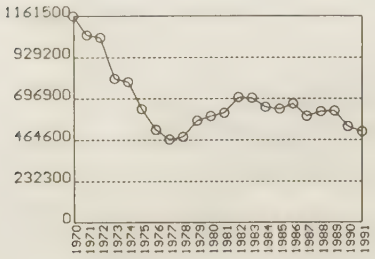
Proportion coming from declining catches.....	87.0 %
from stable catches.....	6.2 %
from rising catches.....	6.8 %

Major fishing countries ranked by 1990 production: Canada:63.89%, USA:11.31%, USSR:7.81%, Greenland:6.96%, Portugal:2.54%, Spain:2.13%, Cuba:1.95%, Germany FR:1.22%, St Pier Miqu:0.81%, France:0.54%, Faeroe Is:0.30%, Korea Rep:0.21%, UK Engld Wal:0.17%, Japan:0.13%, Bulgaria:0.01%.

Table 2.3.2

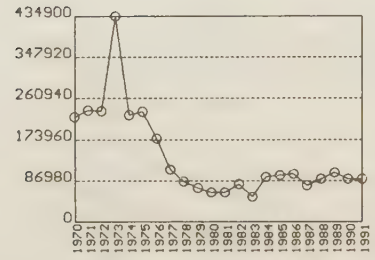
ATLANTIC, NORTHWEST
Ranking order and proportions of cods, hakes, etc. (ISSCAAP GROUP 32), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic cod	1	598463	1 71.1%	1161500	1 76.7%
Silver hake	2	62303	3 7.4%	222100	2 14.7%
Saithe(=Pollock)	3	56020	4 6.7%	24700	5 1.6%
Haddock	4	79856	2 9.5%	48100	3 3.2%
White hake	5	24950	5 3.0%	11800	6 0.8%
Tusk(=Cusk)	6	6617	6 0.8%	4600	8 0.3%
Roundnose grenadier	7	3804	8 0.5%	31000	4 2.1%
Red hake	8	3426	9 0.4%	9700	7 0.6%
Gadiformes nei	9	14	12 0.0%	0	11 0.0%
Greenland cod	10	5589	7 0.7%	0	10 0.0%
Atlantic tomcod	11	218	10 0.0%	400	9 0.0%
Roughhead grenadier	12	0	14 0.0%	0	13 0.0%
Blue whiting(=Poutassou)	13	112	11 0.0%	0	15 0.0%
Blue antimora	14	0	15 0.0%	0	14 0.0%
Ling	15	9	13 0.0%	0	12 0.0%
TOTALS		841381	100.0%	1513900	100.0%



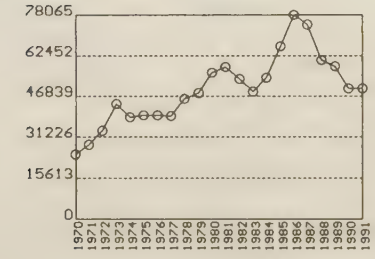
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic cod
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... -9.11 %
Rank..... 1 of 12 based on:1990
Percent to total..... 73.25 % , Cumulative: 73.25 %



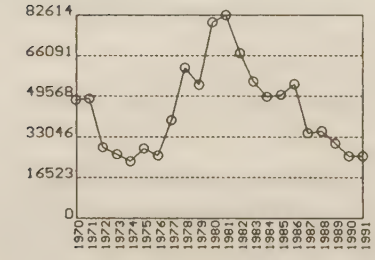
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Silver hake
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-24.51 %
Rank..... 2 of 12 based on:1990
Percent to total..... 12.25 % , Cumulative: 85.50 %



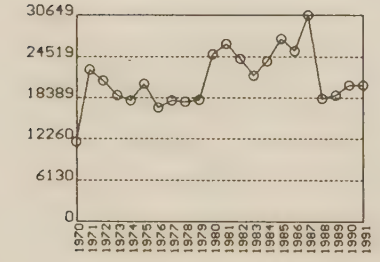
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Saithe(=Pollock)
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 11.42 %
Rank..... 3 of 12 based on:1990
Percent to total..... 6.72 % , Cumulative: 92.22 %



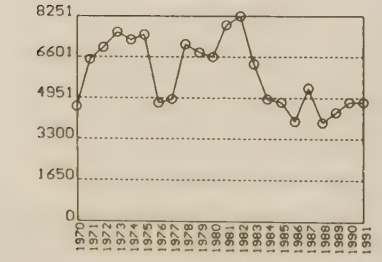
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Haddock
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... -0.09 %
Rank..... 4 of 12 based on:1990
Percent to total..... 3.42 % , Cumulative: 95.64 %



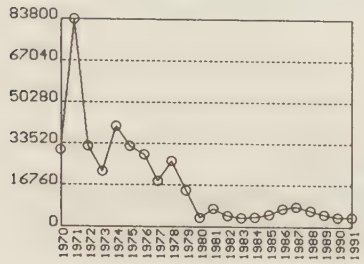
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....White hake
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 4.47 %
Rank..... 5 of 12 based on:1990
Percent to total..... 2.74 % , Cumulative: 98.38 %



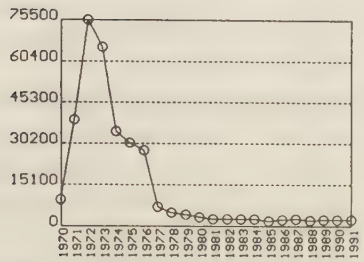
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tusk(=Cusk)
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... -6.39 %
Rank..... 6 of 12 based on:1990
Percent to total..... 0.64 % , Cumulative: 99.02 %



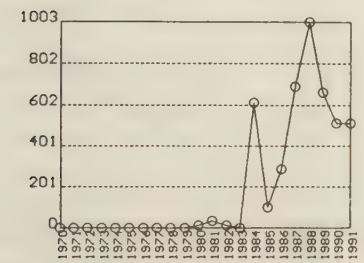
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Roundnose grenadier
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-43.50 %
Rank..... 7 of 12 based on:1990
Percent to total..... 0.53 % , Cumulative: 99.55 %



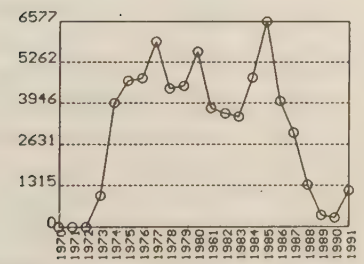
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Red hake
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend.....-53.41 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.34 % , Cumulative: 99.89 %



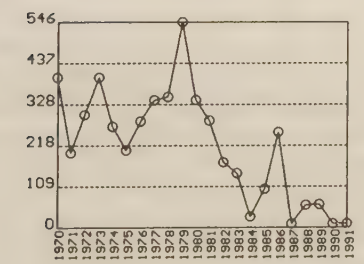
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Gadiformes nei
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 62.80 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.07 % , Cumulative: 99.96 %



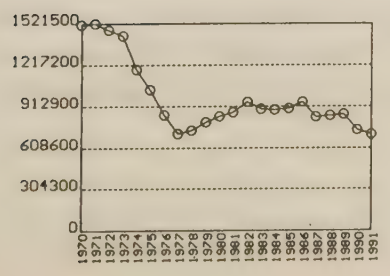
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Greenland cod
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 1.36 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.04 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER CODS, HAKES, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-27.04 %
Rank.....
.....



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CODS, HAKES, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend.....-10.79 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

2.4 Production of redfishes, basses, congers, etc. (ISSCAAP GROUP 33).

Table 2.4.1

ATLANTIC, NORTHWEST
Redfishes, basses, congers, etc. (ISSCAAP GROUP 33), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic redfishes	1	180113	85.0 %	Declining
American angler	2	10655	5.0 %	Declining
Wolffishes(=Catfishes)nei	3	5265	2.5 %	Declining
Scup	4	4310	2.0 %	Declining
Squeteague(=Gray weakfish)	5	2746	1.3 %	Stable (+)
Atlantic croaker	6	2053	1.0 %	Stable (+)
Black seabass	7	1497	0.7 %	Rising
Ocean pout	8	1296	0.6 %	Stable (-)
Spot croaker	9	1093	0.5 %	Stable (-)
Tilefish	10	896	0.4 %	Rising
Striped bass	11	478	0.2 %	Declining
Tautog	12	465	0.2 %	Rising
Argentines	13	272	0.1 %	Sharp decl
Sandeels(=Sandlances)	14	214	0.1 %	Rising
Northern puffer	15	189	0.1 %	Declining
Spotted weakfish	16	78	0.0 %	Stable (-)
Demersal percomorphs nei	17	67	0.0 %	Rising
Black drum	18	62	0.0 %	Rising
American conger	19	42	0.0 %	Rising
Lumpfish(=Lumpsucker)	20	35	0.0 %	Stable (-)
Northern kingfish	21	25	0.0 %	Declining
Atlantic searobins	22	22	0.0 %	Sharp decl
Sheepshead	23	12	0.0 %	Rising
Red drum	24	1	0.0 %	Declining
Red porgy	25	0	0.0 %	Sharp rise
Sculpins	26	0	0.0 %	Sharp decl
Pigfish	27	0	0.0 %	Declining
Alfonsinos	28	0	0.0 %	Rising
Grunts, sweetlips, nei	29	0	0.0 %	Sharp decl
TOTAL REDFISHES, BASSES, ETC.		211886	100.0 %	Declining

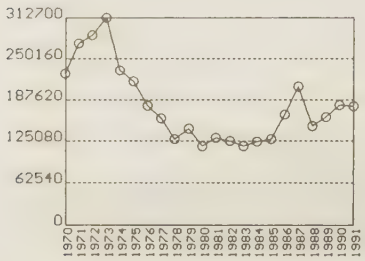
Proportion coming from declining catches.....	95.0 %
from stable catches.....	3.5 %
from rising catches.....	1.5 %

Major fishing countries ranked by 1990 production: Canada:39.12%, USSR:22.13%, USA:12.60%, Portugal:9.32%, Korea Rep:7.02%, Cuba:4.48%, Germany NL:2.25%, Japan:2.04%, Greenland:0.42%, Spain:0.39%, Germany FR:0.12%, France:0.07%, St Pier Miqu:0.03%.

Table 2.4.2

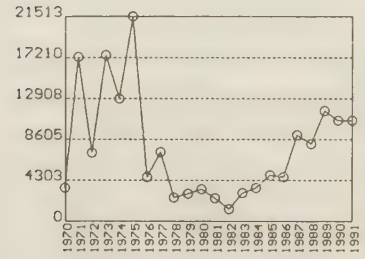
ATLANTIC, NORTHWEST
Ranking order and proportions of redfishes, basses, congers, etc., (ISSCAAP GROUP 33), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic redfishes	1	116997	1 68.3%	228300	1 83.3%
American angler	2	3403	7 2.0%	3500	6 1.3%
Wolffishes(=Catfishes)nei	3	11704	2 6.8%	8800	2 3.2%
Scup	4	8498	4 5.0%	8300	3 3.0%
Squeteague(=Gray weakfish)	5	11226	3 6.6%	2300	9 0.8%
Atlantic croaker	6	5288	5 3.1%	100	17 0.0%
Black seabass	7	1253	13 0.7%	1100	11 0.4%
Ocean pout	8	231	14 0.1%	900	12 0.3%
Spot croaker	9	1640	11 1.0%	3100	7 1.1%
Tilefish	10	3576	6 2.1%	100	16 0.0%
Striped bass	11	2066	8 1.2%	5000	5 1.8%
Tautog	12	153	15 0.1%	100	18 0.0%
Argentines	13	1955	9 1.1%	6700	4 2.4%
Sandeels(=Sandlances)	14	41	17 0.0%	0	23 0.0%
Northern puffer	15	5	24 0.0%	800	13 0.3%
Spotted weakfish	16	20	20 0.0%	100	19 0.0%
Demersal percomorphs nei	17	1331	12 0.8%	0	25 0.0%
Black drum	18	10	22 0.0%	0	21 0.0%
American conger	19	46	16 0.0%	0	29 0.0%
Lumpfish(=Lumpsucker)	20	1842	10 1.1%	1700	10 0.6%
Northern kingfish	21	39	18 0.0%	200	15 0.1%
Atlantic searobins	22	28	19 0.0%	400	14 0.2%
Sheepshead	23	7	23 0.0%	0	22 0.0%
Red drum	24	19	21 0.0%	0	20 0.0%
Red porgy	25	0	29 0.0%	0	28 0.0%
Sculpins	26	0	26 0.0%	2700	8 1.0%
Pigfish	27	1	25 0.0%	0	24 0.0%
Alfonsinos	28	0	27 0.0%	0	26 0.0%
Grunts, sweetlips, nei	29	0	28 0.0%	0	27 0.0%
TOTALS		171379	100.0%	274200	100.0%



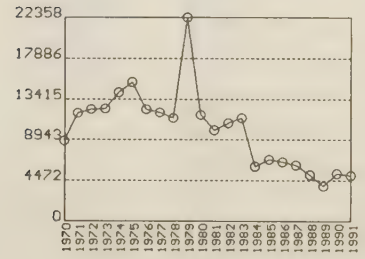
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic redfishes
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -9.99 %
Rank..... 1 of 12 based on:1990
Percent to total..... 85.00 % , Cumulative: 85.00 %



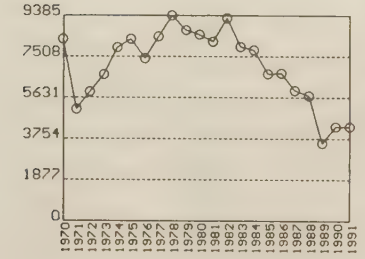
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....American angler
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 19 %
Trend..... -7.76 %
Rank..... 2 of 12 based on:1990
Percent to total..... 5.03 % , Cumulative: 90.03 %



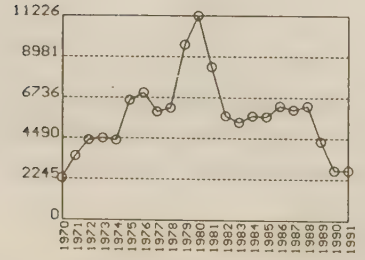
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Wolffishes(=Catfishes)nei
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend.....-15.46 %
Rank..... 3 of 12 based on:1990
Percent to total..... 2.48 % , Cumulative: 92.52 %



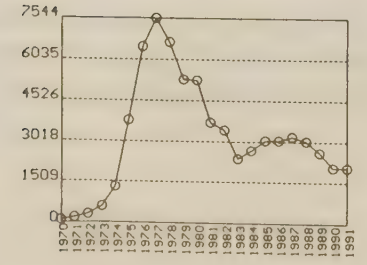
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Scup
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... -5.94 %
Rank..... 4 of 12 based on:1990
Percent to total..... 2.03 % , Cumulative: 94.55 %



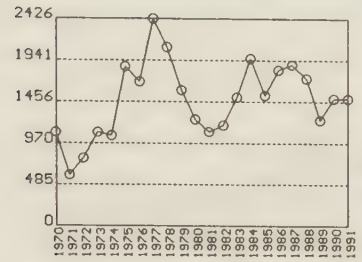
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Squeteague(=Gray weakfish)
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 0.21 %
Rank..... 5 of 12 based on:1990
Percent to total..... 1.30 % , Cumulative: 95.85 %



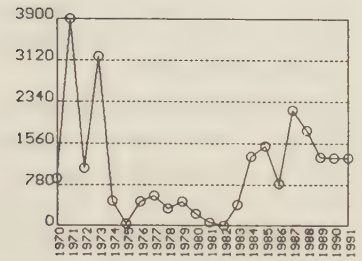
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic croaker
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 4.73 %
Rank..... 6 of 12 based on:1990
Percent to total..... 0.97 % , Cumulative: 96.82 %



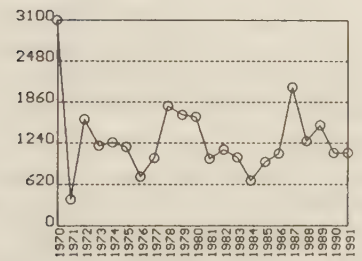
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Black seabass
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 5.84 %
Rank..... 7 of 12 based on:1990
Percent to total..... 0.71 % , Cumulative: 97.52 %



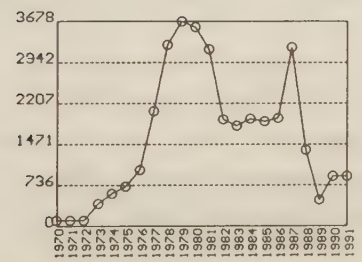
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Ocean pout
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... -2.64 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.61 % , Cumulative: 98.14 %



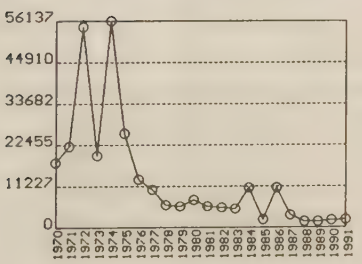
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Spot croaker
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... -3.97 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.52 % , Cumulative: 98.65 %



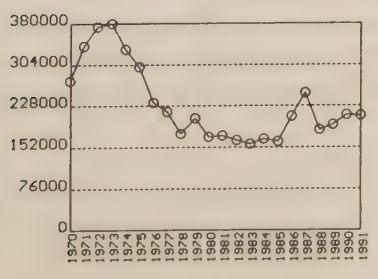
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tilefish
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 11.68 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.42 % , Cumulative: 99.07 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER REDFISHES, BASSES, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 12 %
Trend.....-42.54 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.94 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL REDFISHES, BASSES, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-11.11 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

2.5 Production of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34).

Table 2.5.1

ATLANTIC, NORTHWEST
Jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Capelin	1	183770	96.0 %	Declining
Bluefish	2	5024	2.6 %	Rising
Atlantic butterfish	3	2398	1.3 %	Declining
Mullets nei	4	256	0.1 %	Rising
North Atlantic harvestfish	5	41	0.0 %	Rising
Atlantic silverside	6	34	0.0 %	Stable (-)
Cobia	7	11	0.0 %	Rising
TOTAL JACKS, MULLETS, ETC.		191534	100.0 %	Declining

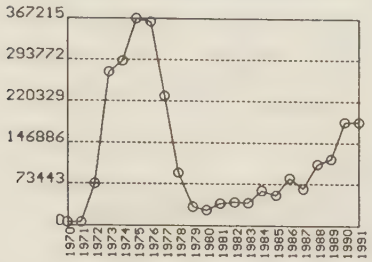
Proportion coming from declining catches.....	97.2 %
from stable catches.....	0.0 %
from rising catches.....	2.8 %

Major fishing countries ranked by 1990 production: Canada:53.17%, USSR:37.16%, Norway:4.38%, USA:4.04%, Japan:1.07%, Greenland:0.09%,Cuba:0.04%, Portugal:0.04%.

Table 2.5.2

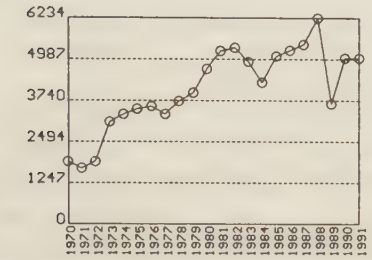
ATLANTIC, NORTHWEST
Ranking order and proportions of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Capelin	1	27294	1 71.0%	6500	2 31.9%
Bluefish	2	4700	3 12.2%	1900	3 9.3%
Atlantic butterfish	3	6141	2 16.0%	10800	1 52.9%
Mullets nei	4	161	4 0.4%	100	5 0.5%
North Atlantic harvestfish	5	33	6 0.1%	0	11 0.0%
Atlantic silverside	6	89	5 0.2%	0	6 0.0%
Cobia	7	2	8 0.0%	0	9 0.0%
TOTALS		38424	100.0%	20400	100.0%



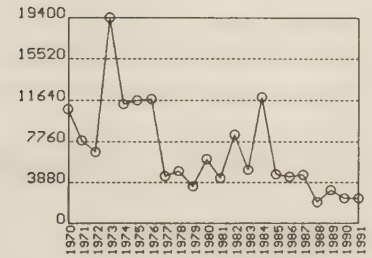
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Capelin
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... -7.58 %
Rank..... 1 of 6 based on:1990
Percent to total..... 95.95 % , Cumulative: 95.95 %



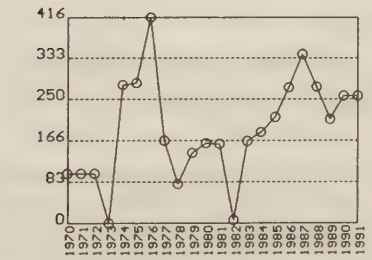
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bluefish
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 13.63 %
Rank..... 2 of 6 based on:1990
Percent to total..... 2.62 % , Cumulative: 98.57 %



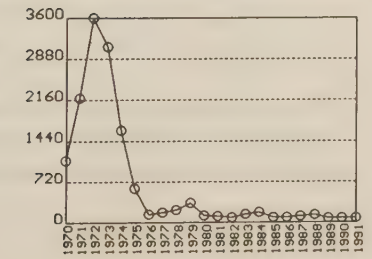
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic butterfish
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 17 %
Trend.....-21.86 %
Rank..... 3 of 6 based on:1990
Percent to total..... 1.25 % , Cumulative: 99.82 %



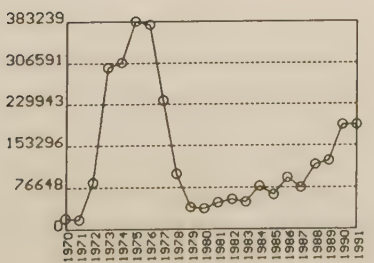
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mullets nei
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 11.74 %
Rank..... 4 of 6 based on:1990
Percent to total..... 0.13 % , Cumulative: 99.96 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER JACKS, MULLETS, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend.....-57.85 %
Rank..... 5 of 6 based on:1990
Percent to total..... 0.05 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL JACKS, MULLETS, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... -7.88 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

2.6 Production of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35).

Table 2.6.1

ATLANTIC, NORTHWEST
Herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic menhaden	1	394463	55.7 %	Rising
Atlantic herring	2	313721	44.3 %	Declining
Baird's slickhead	3	0	0.0 %	Sharp rise
TOTAL HERRINGS, SARDINES, ETC.		708184	100.0 %	Declining

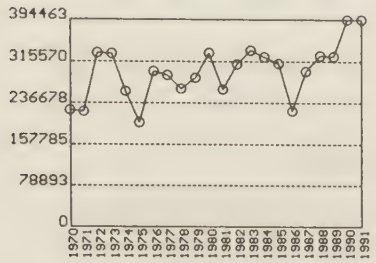
Proportion coming from declining catches.....	44.3 %
from stable catches.....	0.0 %
from rising catches.....	55.7 %

Major fishing countries ranked by 1990 production: USA:62.94%, Canada:36.61%, USSR:0.32%, Bulgaria:0.08%, Cuba:0.05%.

Table 2.6.2

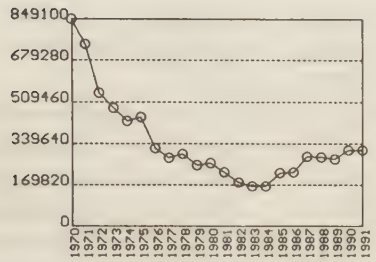
ATLANTIC, NORTHWEST
Ranking order and proportions of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic menhaden	1	331625	1 56.0%	223100	2 20.8%
Atlantic herring	2	260400	2 44.0%	849100	1 79.2%
Baird's slickhead	3	0	3 0.0%	0	3 0.0%
TOTALS		592025	100.0%	1072200	100.0%



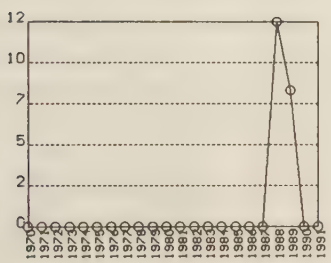
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic menhaden
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 5.47 %
Rank..... 1 of 4 based on:1990
Percent to total..... 55.70 % , Cumulative: 55.70 %



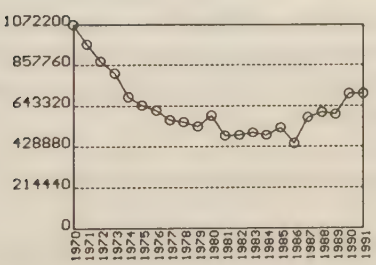
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic herring
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend.....-19.58 %
Rank..... 2 of 4 based on:1990
Percent to total..... 44.30 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Baird's slickhead
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 68.70 %
Rank..... 3 of 4 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... -7.98 %
Rank..... 4 of 4 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

2.7 Production of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36).

Table 2.7.1

ATLANTIC, NORTHWEST
Tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Swordfish	1	5758	43.9 %	Rising
Northern bluefin tuna	2	2256	17.2 %	Declining
Albacore	3	1519	11.6 %	Stable (+)
Bigeye tuna	4	1386	10.6 %	Stable (-)
Yellowfin tuna	5	1188	9.1 %	Stable (+)
Atlantic Spanish mackerel	6	415	3.2 %	Sharp rise
King mackerel	7	352	2.7 %	Rising
Tunas nei	8	82	0.6 %	Rising
Atlantic bonito	9	81	0.6 %	Rising
Atlantic black skipjack	10	61	0.5 %	Rising
Skipjack tuna	11	3	0.0 %	Stable (-)
Atlantic blue marlin	12	2	0.0 %	Declining
Atlantic white marlin	13	1	0.0 %	Declining
Frigate and bullet tunas	14	0	0.0 %	Declining
Atlantic sailfish	15	0	0.0 %	Declining
Tuna-like fishes nei	16	0	0.0 %	Declining
TOTAL TUNAS, BONITOS, ETC.		13104	100.0 %	Stable (+)

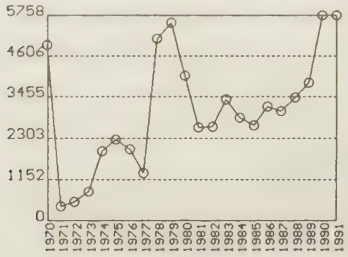
Proportion coming from declining catches.....	17.3 %
from stable catches.....	31.3 %
from rising catches.....	51.5 %

Major fishing countries ranked by 1990 production: USA:62.95%, Japan:19.05%, Canada:10.37%, Other nei A:7.63%.

Table 2.7.2

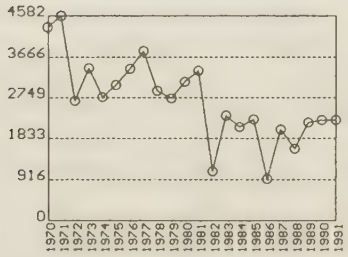
ATLANTIC, NORTHWEST
Ranking order and proportions of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Swordfish	1	4043	2 26.5%	4909	1 47.6%
Northern bluefin tuna	2	3105	3 20.3%	4342	2 42.1%
Albacore	3	2123	4 13.9%	554	3 5.4%
Bigeye tuna	4	4294	1 28.1%	116	4 1.1%
Yellowfin tuna	5	610	5 4.0%	101	5 1.0%
Atlantic Spanish mackerel	6	21	13 0.1%	100	8 1.0%
King mackerel	7	242	7 1.6%	0	10 0.0%
Tunas nei	8	16	15 0.1%	0	14 0.0%
Atlantic bonito	9	89	9 0.6%	100	7 1.0%
Atlantic black skipjack	10	57	11 0.4%	100	6 1.0%
Skipjack tuna	11	393	6 2.6%	0	16 0.0%
Atlantic blue marlin	12	20	14 0.1%	0	13 0.0%
Atlantic white marlin	13	60	10 0.4%	0	12 0.0%
Frigate and bullet tunas	14	32	12 0.2%	0	11 0.0%
Atlantic sailfish	15	8	16 0.1%	0	15 0.0%
Tuna-like fishes nei	16	154	8 1.0%	2	9 0.0%
TOTALS		15267	100.0%	10324	100.0%



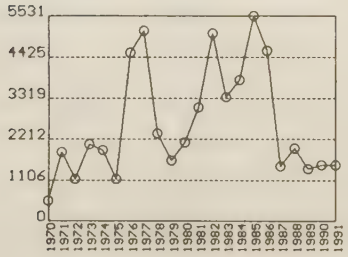
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Swordfish
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 15.22 %
Rank..... 1 of 12 based on:1990
Percent to total..... 43.94 % , Cumulative: 43.94 %



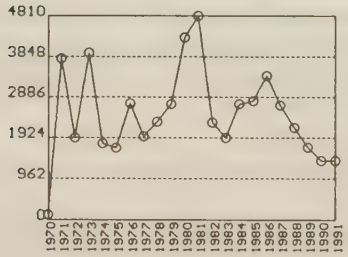
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Northern bluefin tuna
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 16 %
Trend.....-13.62 %
Rank..... 2 of 12 based on:1990
Percent to total..... 17.22 % , Cumulative: 61.16 %



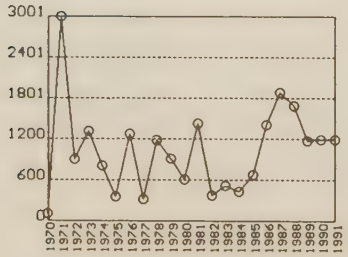
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Albacore
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 4.86 %
Rank..... 3 of 12 based on:1990
Percent to total..... 11.59 % , Cumulative: 72.75 %



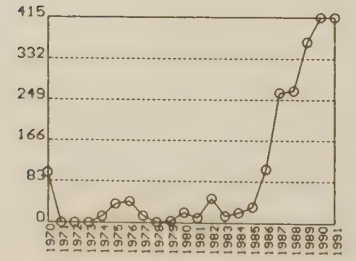
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bigeye tuna
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... -1.28 %
Rank..... 4 of 12 based on:1990
Percent to total..... 10.58 % , Cumulative: 83.33 %



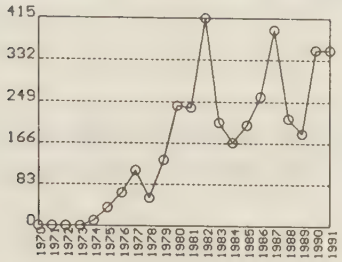
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Yellowfin tuna
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 18 %
Trend..... 2.95 %
Rank..... 5 of 12 based on:1990
Percent to total..... 9.07 % , Cumulative: 92.39 %



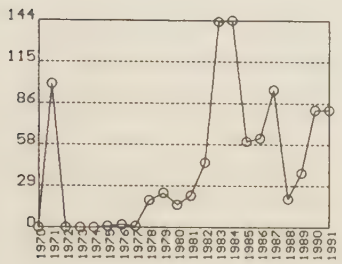
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic Spanish mackerel
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 57.18 %
Rank..... 6 of 12 based on:1990
Percent to total..... 3.17 % , Cumulative: 95.56 %



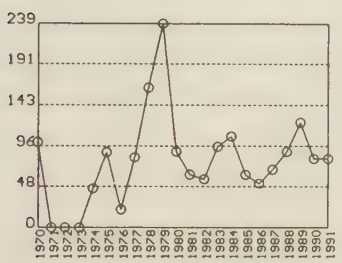
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....King mackerel
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 37.15 %
Rank..... 7 of 12 based on:1990
Percent to total..... 2.69 % , Cumulative: 98.24 %



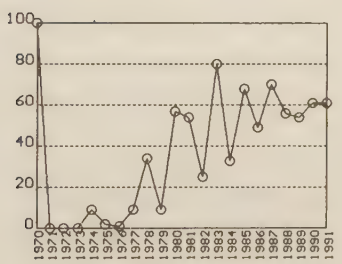
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tunas nei
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 29.34 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.63 % , Cumulative: 98.87 %



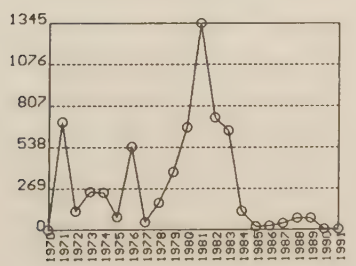
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic bonito
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 10.40 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.62 % , Cumulative: 99.49 %



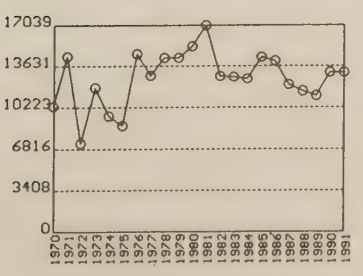
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic black skipjack
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 23.28 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.47 % , Cumulative: 99.95 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER TUNAS, BONITOS, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 11 %
Trend.....-13.65 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.05 % , Cumulative:100.00 %



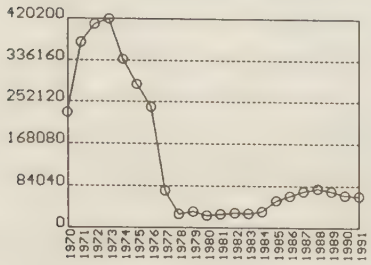
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL TUNAS, BONITOS, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 2.68 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

2.8 Production of mackerels, snoeks, cutlassfishes, etc. (ISSCAAP GROUP 37).

Atlantic mackerel is the only species reported.

Major fishing countries ranked by 1990 production: USA:48.77%, Canada:31.31%, Germany NL:13.25%, USSR:3.41%, Bulgaria:1.89%, Poland:0.77%, Cuba:0.58%, St Pier Miqu:0.02%.



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic mackerel
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 1 %
Trend.....-39.80 %
Rank.....
.....

2.9 Production of sharks, rays, chimaeras, etc. (ISSCAAP GROUP 38).

Table 2.9.1

ATLANTIC, NORTHWEST
Sharks, rays, chimaeras, etc. (ISSCAAP GROUP 38), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Skates	1	33737	67.3 %	Rising
Dogfish sharks nei	2	15221	30.4 %	Declining
Large sharks nei	3	616	1.2 %	Declining
Porbeagle	4	521	1.0 %	Rising
Shortfin mako	5	19	0.0 %	Sharp rise
Longfin mako	6	1	0.0 %	Sharp rise
Mackerel sharks, porbeagles	7	1	0.0 %	Sharp rise
Picked(=Spiny)dogfish	8	0	0.0 %	Declining
TOTAL SHARKS, RAYS, ETC.		50116	100.0 %	Stable (+)

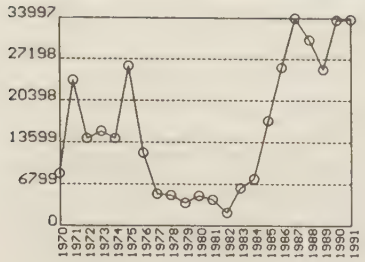
Proportion coming from declining catches.....	31.6 %
from stable catches.....	0.0 %
from rising catches.....	68.4 %

Major fishing countries ranked by 1990 production: USA:53.12%, Portugal:27.08%, Spain:10.62%, USSR:4.38%, Korea Rep:1.49%, St Pier Miqu:1.42%, Faeroe Is:1.01%, Canada:0.44%, Japan:0.22%, France:0.19%, Norway:0.03%.

Table 2.9.2

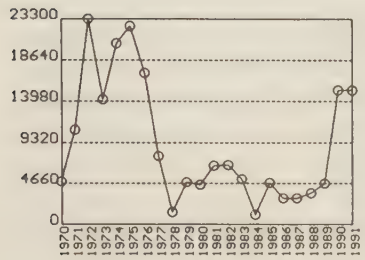
ATLANTIC, NORTHWEST
Ranking order and proportions of sharks, rays, chimaeras, etc. (ISSCAAP GROUP 38), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Skates	1	4901	1 44.3%	8500	1 55.6%
Dogfish sharks nei	2	4552	2 41.1%	4900	2 32.0%
Large sharks nei	3	515	4 4.7%	1700	3 11.1%
Porbeagle	4	426	5 3.9%	200	4 1.3%
Shortfin mako	5	0	8 0.0%	0	8 0.0%
Longfin mako	6	0	6 0.0%	0	6 0.0%
Mackerel sharks, porbeagles	7	0	7 0.0%	0	7 0.0%
Picked(=Spiny)dogfish	8	677	3 6.1%	0	5 0.0%
TOTALS		11071	100.0%	15300	100.0%



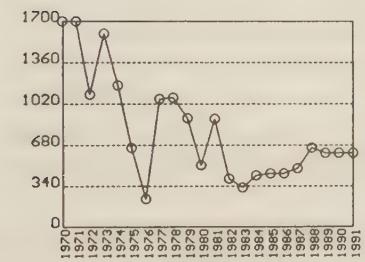
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Skates
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 17.89 %
Rank..... 1 of 6 based on:1990
Percent to total..... 67.32 % , Cumulative: 67.32 %



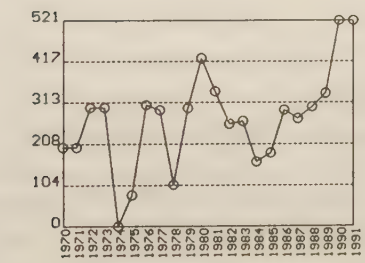
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Dogfish sharks nei
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-16.23 %
Rank..... 2 of 6 based on:1990
Percent to total..... 30.37 % , Cumulative: 97.69 %



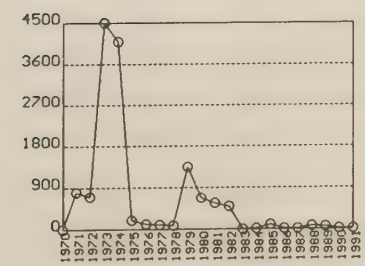
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Large sharks nei
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-20.74 %
Rank..... 3 of 6 based on:1990
Percent to total..... 1.23 % , Cumulative: 98.92 %



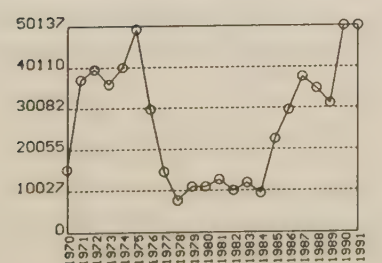
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Porbeagle
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 13.07 %
Rank..... 4 of 6 based on:1990
Percent to total..... 1.04 % , Cumulative: 99.96 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER SHARKS, RAYS, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-46.55 %
Rank..... 5 of 6 based on:1990
Percent to total..... 0.04 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL SHARKS, RAYS, ETC.
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 3.58 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

2.10 Production of crustaceans (ISSCAAP GROUPS 41-47).

Table 2.10.1

ATLANTIC, NORTHWEST
Crustaceans (ISSCAAP GROUPS 41-47), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Northern prawn	1	89087	32.2 %	Rising
American lobster	2	74230	26.8 %	Rising
Blue crab	3	58969	21.3 %	Rising
Queen crab	4	25984	9.4 %	Rising
Pink(=Pandalid)shrimps	5	23148	8.4 %	Rising
Red crab	6	1527	0.6 %	Rising
Marine crabs nei	7	1366	0.5 %	Rising
Jonah crab	8	1175	0.4 %	Sharp rise
Atlantic rock crab	9	1066	0.4 %	Rising
TOTAL CRUSTACEANS		276552	100.0 %	Rising

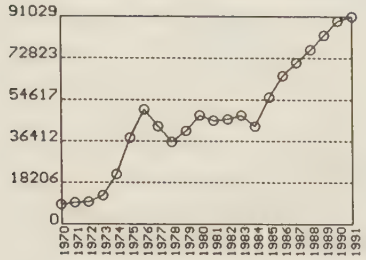
Proportion coming from declining catches.....	0.0 %
from stable catches.....	0.0 %
from rising catches.....	100.0 %

Major fishing countries ranked by 1990 production: Canada:39.71%, USA:35.70%, Greenland:24.21%, France:0.15%, Denmark:0.14%, Faeroe Is:0.08%.

Table 2.10.2

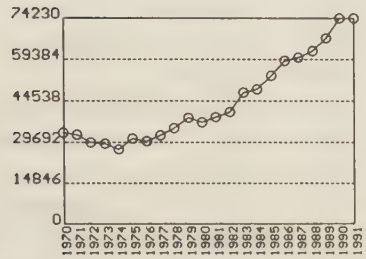
ATLANTIC, NORTHWEST
Ranking order and proportions of crustaceans, in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Northern prawn	1	47907	1 28.7%	8500	4 8.5%
American lobster	2	36851	3 22.1%	33100	2 33.0%
Blue crab	3	39432	2 23.7%	38200	1 38.1%
Queen crab	4	28724	4 17.2%	6500	5 6.5%
Pink(=Pandalid)shrimps	5	9722	5 5.8%	13200	3 13.2%
Red crab	6	2546	6 1.5%	0	11 0.0%
Marine crabs nei	7	622	8 0.4%	100	7 0.1%
Jonah crab	8	99	9 0.1%	0	8 0.0%
Atlantic rock crab	9	775	7 0.5%	800	6 0.8%
TOTALS		166678	100.0%	100400	100.0%



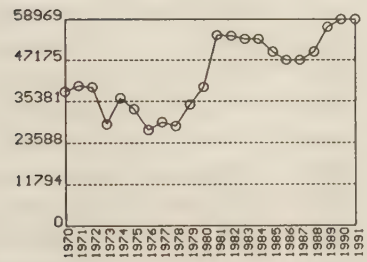
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Northern prawn
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... 27.40 %
Rank..... 1 of 6 based on:1990
Percent to total..... 32.21 % , Cumulative: 32.21 %



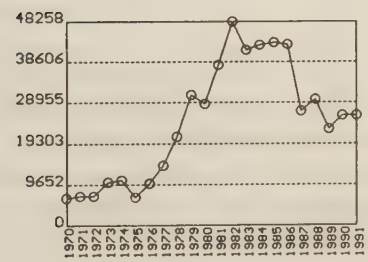
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....American lobster
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 17.35 %
Rank..... 2 of 6 based on:1990
Percent to total..... 26.84 % , Cumulative: 59.05 %



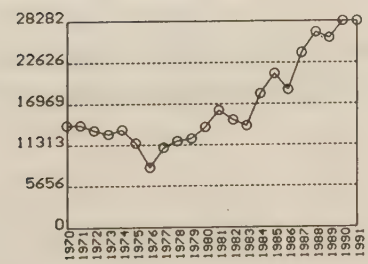
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blue crab
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 10.28 %
Rank..... 3 of 6 based on:1990
Percent to total..... 21.32 % , Cumulative: 80.38 %



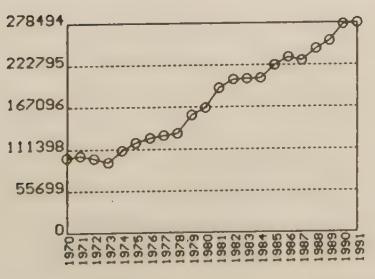
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Queen crab
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 20.94 %
Rank..... 4 of 6 based on:1990
Percent to total..... 9.40 % , Cumulative: 89.77 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER CRUSTACEANS
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 16.26 %
Rank..... 5 of 6 based on:1990
Percent to total..... 10.22 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CRUSTACEANS
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 18.67 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

2.11 Production of molluscs (ISSCAAP GROUPS 51-58).

Table 2.11.1

ATLANTIC, NORTHWEST
Molluscs (ISSCAAP GROUPS 51-58),
ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Sea scallop	1	216865	29.1 %	Rising
Surf clam	2	183463	24.7 %	Rising
Ocean quahog	3	177436	23.8 %	Rising
American cupped oyster	4	28343	3.8 %	Declining
Hard clam	5	25104	3.4 %	Declining
Soft clam	6	22504	3.0 %	Declining
Shortfin(Northern)squid	7	22197	3.0 %	Declining
Blue mussel	8	21293	2.9 %	Rising
Longfin squid	9	16216	2.2 %	Stable (-)
Cupped oysters nei	10	11305	1.5 %	Sharp rise
Clams nei	11	7682	1.0 %	Rising
Stimpson's surf clam	12	3438	0.5 %	Sharp rise
Marine molluscs nei	13	2795	0.4 %	Rising
Bay scallop	14	2079	0.3 %	Declining
Whelks nei	15	1970	0.3 %	Rising
Periwinkles nei	16	666	0.1 %	Rising
Squids nei	17	621	0.1 %	Sharp decl
Scallops nei	18	231	0.0 %	Sharp rise
Atlantic razor clam	19	0	0.0 %	Declining
Icelandic scallop	20	0	0.0 %	Rising
TOTAL MOLLUSCS		744208	100.0 %	Rising

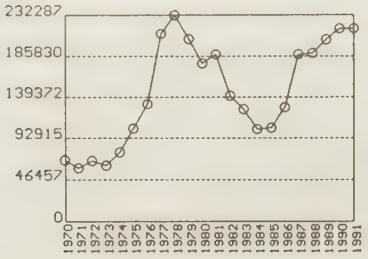
Proportion coming from declining catches.....	13.5 %
from stable catches.....	2.2 %
from rising catches.....	84.3 %

Major fishing countries ranked by 1990 production: USA:83.26%, Canada:15.76%, Cuba:0.37%, USSR:0.27%, Japan:0.18%, Norway:0.12%, Spain:0.03%, Bulgaria:0.01%.

Table 2.11.2

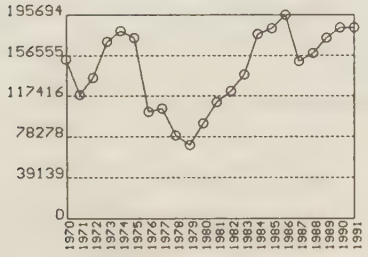
ATLANTIC, NORTHWEST
Ranking order and proportions of molluscs (ISSCAAP GROUPS 51-58), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Sea scallop	1	177670	1 24.3%	68100	3 13.5%
Surf clam	2	91124	4 12.4%	153000	2 30.3%
Ocean quahog	3	127974	3 17.5%	6300	7 1.3%
American cupped oyster	4	156493	2 21.4%	163700	1 32.5%
Hard clam	5	35381	6 4.8%	51100	4 10.1%
Soft clam	6	21448	8 2.9%	31700	5 6.3%
Shortfin(Northern)squid	7	87483	5 11.9%	1700	11 0.3%
Blue mussel	8	6262	9 0.9%	1800	10 0.4%
Longfin squid	9	23586	7 3.2%	15700	6 3.1%
Cupped oysters nei	10	0	17 0.0%	0	17 0.0%
Clams nei	11	1019	11 0.1%	400	14 0.1%
Stimpson's surf clam	12	0	20 0.0%	0	20 0.0%
Marine molluscs nei	13	161	15 0.0%	800	13 0.2%
Bay scallop	14	2226	10 0.3%	5800	8 1.2%
Whelks nei	15	984	12 0.1%	1500	12 0.3%
Periwinkles nei	16	329	13 0.0%	300	15 0.1%
Squids nei	17	282	14 0.0%	2500	9 0.5%
Scallops nei	18	0	18 0.0%	0	18 0.0%
Atlantic razor clam	19	3	16 0.0%	0	16 0.0%
Icelandic scallop	20	0	19 0.0%	0	19 0.0%
TOTALS		732425	100.0%	504400	100.0%



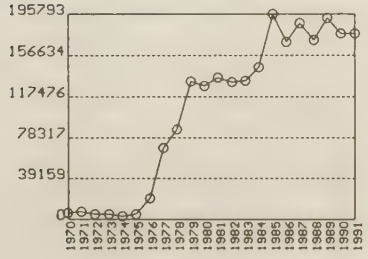
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sea scallop
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 14.02 %
Rank..... 1 of 12 based on:1990
Percent to total..... 29.14 % , Cumulative: 29.14 %



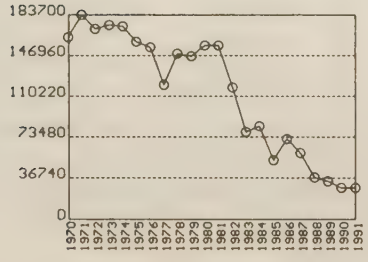
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Surf clam
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 5.40 %
Rank..... 2 of 12 based on:1990
Percent to total..... 24.65 % , Cumulative: 53.79 %



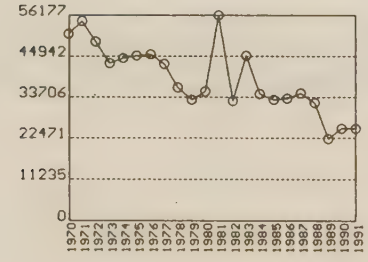
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Ocean quahog
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 36.29 %
Rank..... 3 of 12 based on:1990
Percent to total..... 23.84 % , Cumulative: 77.63 %



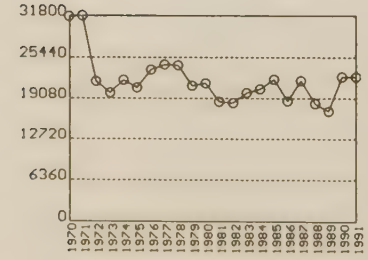
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....American cupped oyster
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend.....-24.77 %
Rank..... 4 of 12 based on:1990
Percent to total..... 3.81 % , Cumulative: 81.44 %



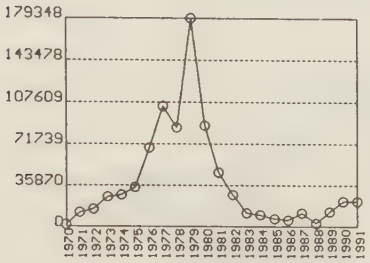
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Hard clam
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 11 %
Trend.....-10.61 %
Rank..... 5 of 12 based on:1990
Percent to total..... 3.37 % , Cumulative: 84.82 %



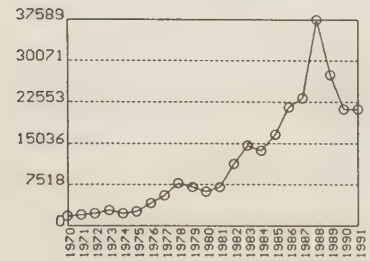
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Soft clam
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... -5.13 %
Rank..... 6 of 12 based on:1990
Percent to total..... 3.02 % , Cumulative: 87.84 %



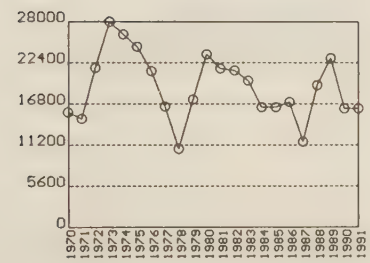
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Shortfin(Northern)squid
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-12.39 %
Rank..... 7 of 12 based on:1990
Percent to total..... 2.98 % , Cumulative: 90.82 %



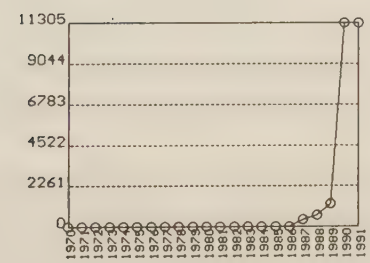
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blue mussel
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 40.55 %
Rank..... 8 of 12 based on:1990
Percent to total..... 2.86 % , Cumulative: 93.68 %



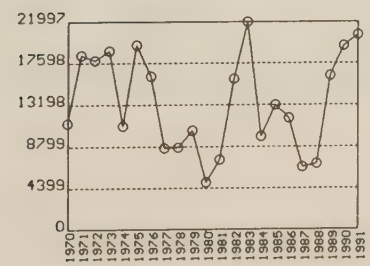
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Longfin squid
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... -3.44 %
Rank..... 9 of 12 based on:1990
Percent to total..... 2.18 % , Cumulative: 95.86 %



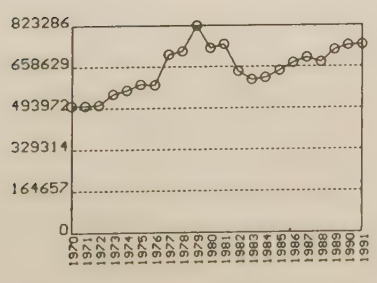
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cupped oysters nei
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation.....
Trend..... 85.24 %
Rank..... 10 of 12 based on:1990
Percent to total..... 1.52 % , Cumulative: 97.38 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER MOLLUSCS
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

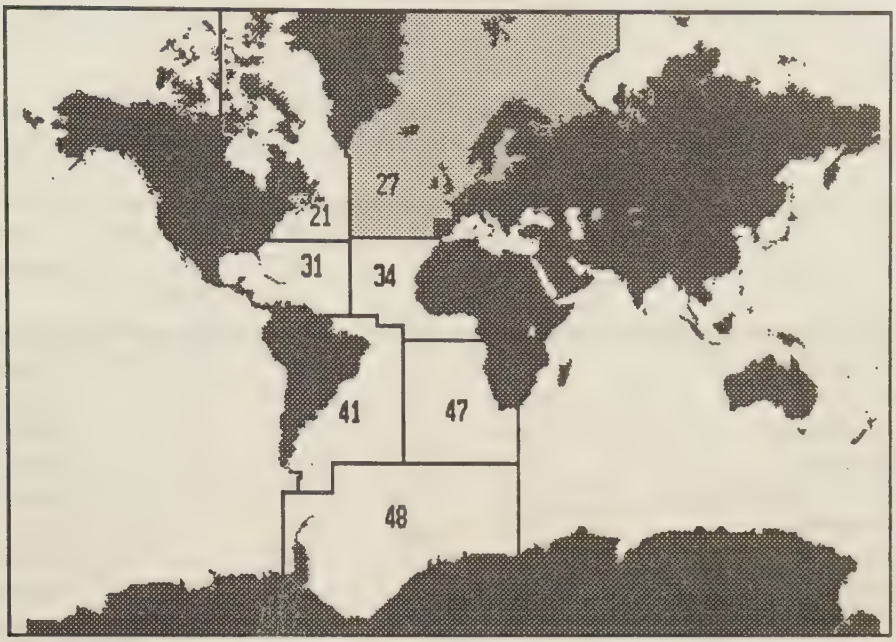
Fluctuation..... 17 %
Trend..... -0.95 %
Rank..... 11 of 12 based on:1990
Percent to total..... 2.61 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MOLLUSCS
Area.....ATLANTIC, NORTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 5.04 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3. ATLANTIC, NORTHEAST (Area 27)



Major producers of fish, crustaceans and molluscs (1990 ranking): Norway:18.97%, Iceland:16.55%,Denmark:16.26%,France:7.00%,UK Scotland:6.27%,Spain:5.86%, USSR:5.68%, Netherlands:4.72%, Faeroe Is:3.04%, Sweden:2.78%, Ireland:2.52%, Germany FR:2.29%,Portugal:2.18%, UK Engld Wal:1.89%,Poland:1.19%,Finland:0.94%, Germany NL:0.72%, Belgium:0.45%, UK No Ireld:0.37%, Greenland:0.12%,Japan:0.08%, Isle Man:0.04%, Bulgaria:0.04%, Channel Is:0.03%.

Major species and percentages based on 1990 ranking: Atlantic herring:13.45%, Atlantic cod:10.50%, Capelin:8.76%, Sandeels(=Sandlances):8.27%, Atlantic mackerel:6.43%, Blue whiting(=Poutassou):6.22%, Blue mussel:5.09%, Atlantic horse mackerel:4.45%, Saithe(=Pollock):4.16%, Norway pout:3.25%, Atlantic salmon:2.45%, European plaice:2.26%, Atlantic redfishes:2.11%, European sprat:2.09%, Haddock:2.01%, European pilchard(=Sardine):1.94%, Cupped oysters nei:1.56%, Northern prawn:1.46%, Whiting:1.00%, European hake:0.75%, OTHER SPECIES:11.76%.

3.1 Production of diadromous fish (ISSCAAP GROUPS 21-25).

Table 3.1.1

ATLANTIC, NORTHEAST
Diadromous fish (ISSCAAP GROUPS 21-25), ranked by 1990 production

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic salmon	1	223440	83.4 %	Sharp rise
Rainbow trout	2	29639	11.1 %	Sharp rise
European smelt	3	6051	2.3 %	Declining
European eel	4	4337	1.6 %	Declining
European whitefish	5	1781	0.7 %	Stable (-)
Pollan(=Powan)	6	1705	0.6 %	Declining
Sea trout	7	425	0.2 %	Rising
Chars nei	8	162	0.1 %	Sharp rise
Coho(=Silver)salmon	9	85	0.0 %	Sharp rise
Trouts nei	10	80	0.0 %	Declining
Allis and twaite shads	11	79	0.0 %	Declining
Arctic char	12	69	0.0 %	Sharp rise
Salmonoids nei	13	38	0.0 %	Declining
Whitefishes nei	14	34	0.0 %	Declining
Houting	15	4	0.0 %	Stable (+)
Trouts, chars, nei	16	0	0.0 %	Rising
Sturgeons nei	17	0	0.0 %	Declining
TOTAL DIADROMOUS		267929	100.0 %	Rising

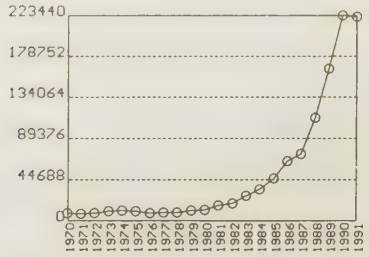
Proportion coming from declining catches.....	4.6 %
from stable catches.....	0.7 %
from rising catches.....	94.7 %

Major fishing countries ranked by 1990 production: Norway:61.99%, UK Scotland:12.27%, Finland:6.65%, Faeroe Is:5.02%, Denmark:3.35%, Sweden:3.11%, Ireland:2.53%, USSR:1.64%, Iceland:1.13%, Netherlands:0.99%, France:0.63%, Poland:0.25%, Germany NL:0.23%, Germany FR:0.08%, UK No Ireld:0.06%, Portugal:0.02%, UK Engld Wal:0.02%, Spain:0.01%.

Table 3.1.2

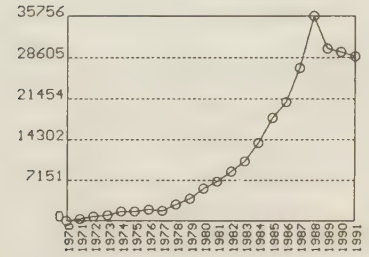
ATLANTIC, NORTHEAST
Ranking order and proportions of diadromous species in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic salmon	1	12158	1 37.7%	8700	1 30.1%
Rainbow trout	2	5712	3 17.7%	0	17 0.0%
European smelt	3	3940	4 12.2%	7800	2 27.0%
European eel	4	5964	2 18.5%	7300	3 25.3%
European whitefish	5	1582	5 4.9%	1400	6 4.8%
Pollan(=Powan)	6	1511	6 4.7%	1600	4 5.5%
Sea trout	7	96	9 0.3%	100	9 0.4%
Chars nei	8	0	14 0.0%	0	13 0.0%
Coho(=Silver)salmon	9	0	17 0.0%	0	16 0.0%
Trouts nei	10	128	8 0.4%	200	7 0.7%
Allis and twaite shads	11	73	10 0.2%	100	8 0.4%
Arctic char	12	0	13 0.0%	0	12 0.0%
Salmonoids nei	13	61	11 0.2%	100	10 0.4%
Whitefishes nei	14	1007	7 3.1%	1600	5 5.5%
Houting	15	27	12 0.1%	0	11 0.0%
Trouts, chars, nei	16	0	15 0.0%	0	14 0.0%
Sturgeons nei	17	0	16 0.0%	0	15 0.0%
TOTALS		32259	100.0%	28900	100.0%



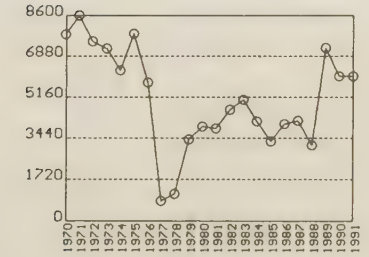
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic salmon
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 57.82 %
Rank..... 1 of 12 based on:1990
Percent to total..... 83.40 % , Cumulative: 83.40 %



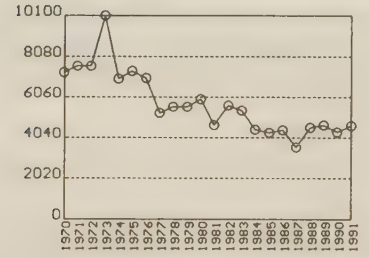
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Rainbow trout
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 51.76 %
Rank..... 2 of 12 based on:1990
Percent to total..... 11.06 % , Cumulative: 94.46 %



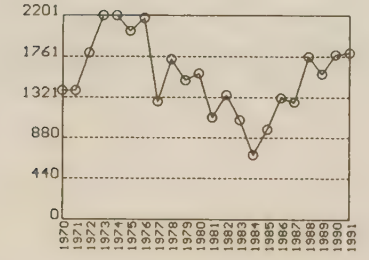
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European smelt
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... -7.60 %
Rank..... 3 of 12 based on:1990
Percent to total..... 2.26 % , Cumulative: 96.72 %



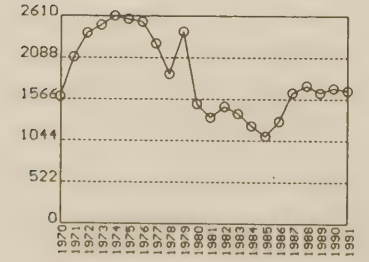
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European eel
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend.....-12.31 %
Rank..... 4 of 12 based on:1990
Percent to total..... 1.62 % , Cumulative: 98.33 %



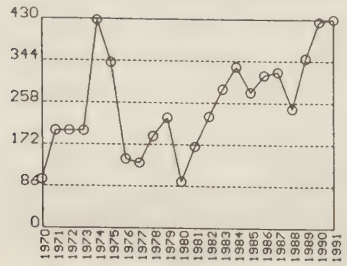
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European whitefish
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -4.35 %
Rank..... 5 of 12 based on:1990
Percent to total..... 0.66 % , Cumulative: 99.00 %



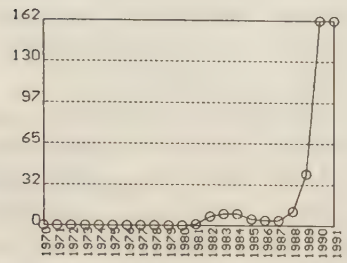
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Pollan(=Powan)
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -8.84 %
Rank..... 6 of 12 based on:1990
Percent to total..... 0.64 % , Cumulative: 99.64 %



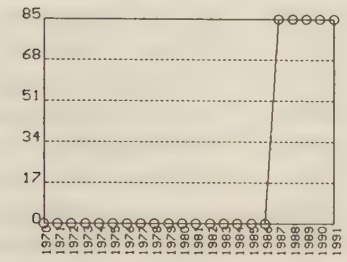
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sea trout
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 12.31 %
Rank..... 7 of 12 based on:1990
Percent to total..... 0.16 % , Cumulative: 99.79 %



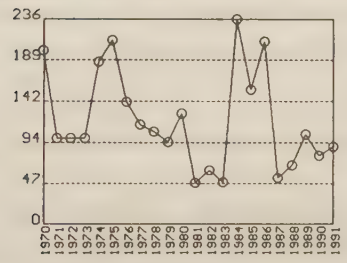
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Chars nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation.....
Trend..... 79.76 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.06 % , Cumulative: 99.85 %



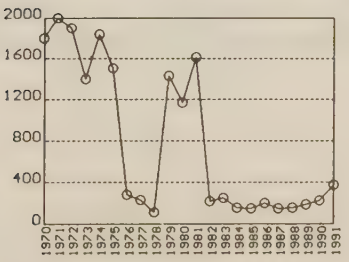
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Coho(=Silver)salmon
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation.....
Trend..... 73.91 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.03 % , Cumulative: 99.89 %



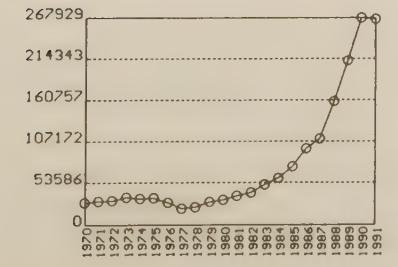
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Trouts nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 19 %
Trend..... -7.13 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.03 % , Cumulative: 99.92 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 12 %
Trend.....-38.05 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.08 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL DIADROMOUS
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 43.36 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3.2 Production of flounders, halibuts, soles, etc. (ISSCAAP GROUP 31).

Table 3.2.1

ATLANTIC, NORTHEAST
Flounders, halibuts, soles, etc. (ISSCAAP GROUP 31), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
European plaice	1	205450	52.3 %	Stable (+)
Greenland halibut	2	61719	15.7 %	Declining
Common sole	3	32406	8.3 %	Stable (+)
Megrim	4	25351	6.5 %	Rising
Common dab	5	14584	3.7 %	Stable (+)
Lemon sole	6	12817	3.3 %	Rising
Witch flounder	7	10537	2.7 %	Rising
Turbot	8	8517	2.2 %	Stable (+)
European flounder	9	7826	2.0 %	Stable (-)
Flatfishes nei	10	5668	1.4 %	Stable (-)
Atlantic halibut	11	3564	0.9 %	Declining
Brill	12	1894	0.5 %	Stable (-)
Amer. plaice(=Long rough dab)	13	1509	0.4 %	Rising
Wedge(=Senegal) sole	14	670	0.2 %	Rising
Sand sole	15	135	0.0 %	Sharp rise
TOTAL FLOUNDERS, SOLES, ETC.		392647	100.0 %	Stable (+)

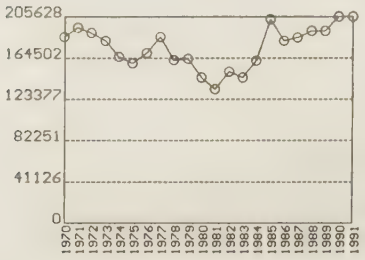
Proportion coming from declining catches.....	16.6 %
from stable catches.....	70.4 %
from rising catches.....	13.0 %

Major fishing countries ranked by 1990 production: Netherlands:25.88%, Iceland:13.82%, Denmark:13.64%, UK Engld Wal:8.30%, France:7.42%, Belgium:6.49%, Norway:5.26%, UK Scotland:4.58%, Spain:4.57%, Germany FR:3.53%, USSR:1.72%, Ireland:1.37%, Faeroe Is:0.82%, Germany NL:0.69%, Poland:0.57%, Sweden:0.54%, Portugal:0.50%, Japan:0.12%, UK No Ireld:0.12%, Greenland:0.02%, Finland:0.02%, Isle Man:0.01%.

Table 3.2.2

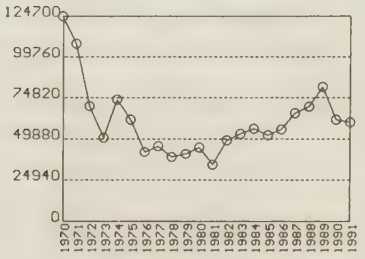
ATLANTIC, NORTHEAST
Ranking order and proportions of flounders, halibuts, soles, etc., (ISSCAAP GROUP 31), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
European plaice	1	145180	1 46.8%	185800	1 45.5%
Greenland halibut	2	44916	2 14.5%	124700	2 30.5%
Common sole	3	25818	4 8.3%	30100	3 7.4%
Megrim	4	32322	3 10.4%	21000	4 5.1%
Common dab	5	15141	5 4.9%	11600	5 2.8%
Lemon sole	6	11368	6 3.7%	6100	9 1.5%
Witch flounder	7	2804	12 0.9%	1700	11 0.4%
Turbot	8	7251	8 2.3%	5000	10 1.2%
European flounder	9	8650	7 2.8%	7400	6 1.8%
Flatfishes nei	10	4252	10 1.4%	7300	7 1.8%
Atlantic halibut	11	3755	11 1.2%	6600	8 1.6%
Brill	12	2026	13 0.7%	1200	12 0.3%
Amer. plaice(=Long rough dab)	13	5799	9 1.9%	0	15 0.0%
Wedge(=Senegal) sole	14	728	14 0.2%	0	13 0.0%
Sand sole	15	18	15 0.0%	0	14 0.0%
TOTALS		310028	100.0%	408500	100.0%



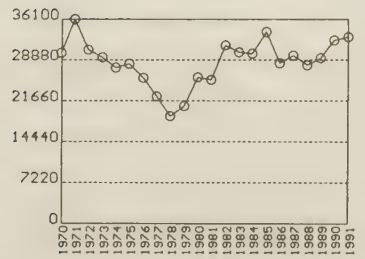
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European plaice
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 1.46 %
Rank..... 1 of 12 based on:1990
Percent to total..... 52.32 % , Cumulative: 52.32 %



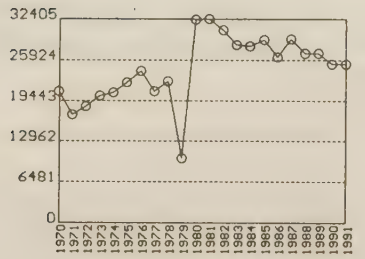
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Greenland halibut
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -5.44 %
Rank..... 2 of 12 based on:1990
Percent to total..... 15.72 % , Cumulative: 68.04 %



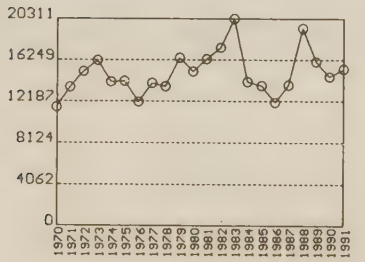
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common sole
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 1.30 %
Rank..... 3 of 12 based on:1990
Percent to total..... 8.25 % , Cumulative: 76.30 %



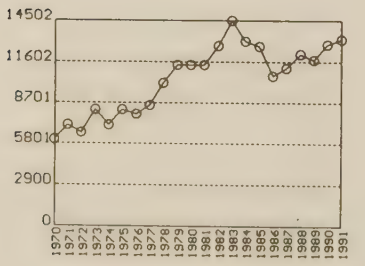
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Megrim
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 6.70 %
Rank..... 4 of 12 based on:1990
Percent to total..... 6.46 % , Cumulative: 82.75 %



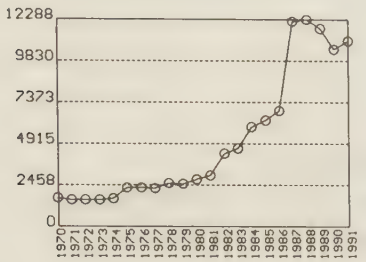
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common dab
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 2.47 %
Rank..... 5 of 12 based on:1990
Percent to total..... 3.71 % , Cumulative: 86.47 %



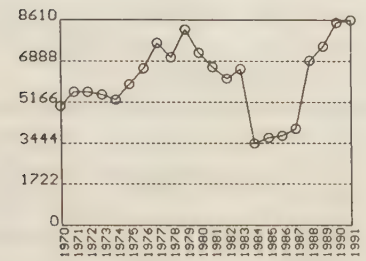
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Lemon sole
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 11.11 %
Rank..... 6 of 12 based on:1990
Percent to total..... 3.26 % , Cumulative: 89.73 %



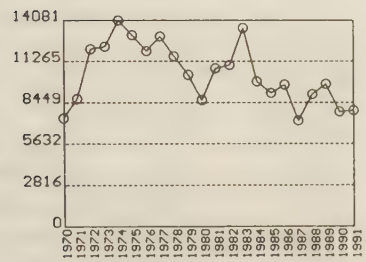
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Witch flounder
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 37.43 %
Rank..... 7 of 12 based on:1990
Percent to total..... 2.68 % , Cumulative: 92.41 %



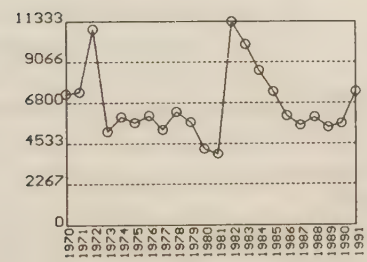
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Turbot
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 2.60 %
Rank..... 8 of 12 based on:1990
Percent to total..... 2.17 % , Cumulative: 94.58 %



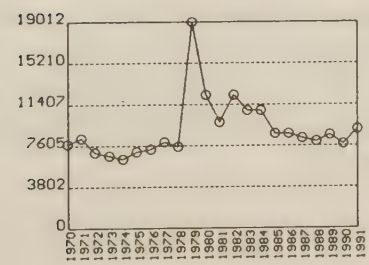
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European flounder
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... -4.85 %
Rank..... 9 of 12 based on:1990
Percent to total..... 1.99 % , Cumulative: 96.58 %



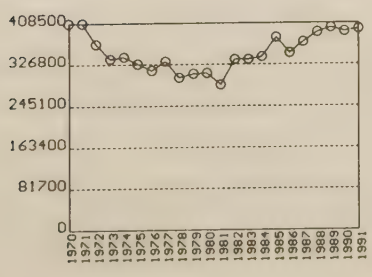
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Flatfishes nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -1.24 %
Rank..... 10 of 12 based on:1990
Percent to total..... 1.44 % , Cumulative: 98.02 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER FLOUNDERS, SOLES, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 2.94 %
Rank..... 11 of 12 based on:1990
Percent to total..... 1.97 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL FLOUNDERS, SOLES, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 1.29 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3.3 Production of cods, hakes, haddocks, etc. (ISSCAAP GROUP 32).

Table 3.3.1

ATLANTIC, NORTHEAST
Cods, hakes, haddocks, etc. (ISSCAAP GROUP 32),
ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic cod	1	956068	35.5 %	Declining
Blue whiting(=Poutassou)	2	565991	21.0 %	Rising
Saithe(=Pollock)	3	378361	14.0 %	Declining
Norway pout	4	295893	11.0 %	Declining
Haddock	5	182640	6.8 %	Declining
Whiting	6	91174	3.4 %	Declining
European hake	7	67965	2.5 %	Declining
Ling	8	56347	2.1 %	Stable (+)
Tusk(=Cusk)	9	40193	1.5 %	Rising
Pollack	10	18399	0.7 %	Rising
Blue ling	11	17326	0.6 %	Rising
Pouting(=Bib)	12	16060	0.6 %	Stable (-)
Roundnose grenadier	13	3843	0.1 %	Rising
Gadiformes nei	14	3394	0.1 %	Declining
Wachna cod(=Navaga)	15	2040	0.1 %	Stable (-)
Greater forkbeard	16	823	0.0 %	Stable (-)
Polar cod (=Arctic cod)	17	63	0.0 %	Sharp decl
Roughhead grenadier	18	9	0.0 %	Sharp rise
Forkbeard	19	2	0.0 %	Sharp rise
TOTAL CODS, HAKES, ETC.		2696591	100.0 %	Declining

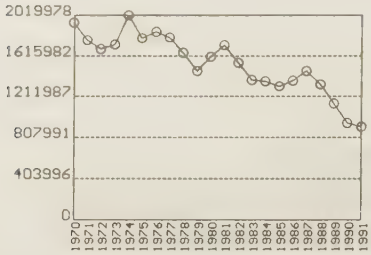
Proportion coming from declining catches.....	73.3 %
from stable catches.....	2.8 %
from rising catches.....	23.9 %

Major fishing countries ranked by 1990 production: Norway:27.29%, Iceland:18.81%, Denmark:11.48%, USSR:8.29%, France:7.56%, Faeroe Is:6.99%, UK Scotland:5.81%, Spain:3.54%, Germany FR:2.53%, Sweden:2.29%, UK Engld Wal:1.64%, Poland:1.11%, Netherlands:0.70%, Ireland:0.57%, Portugal:0.40%, UK No Ireld:0.36%, Belgium:0.31%, Greenland:0.16%, Germany NL:0.08%, Finland:0.06%.

Table 3.3.2

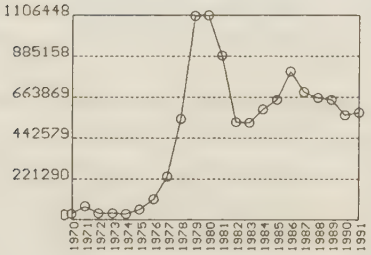
ATLANTIC, NORTHEAST
Ranking order and proportions of cods, hakes, haddocks, etc., (ISSCAAP GROUP 32), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic cod	1	1609264	1 36.3%	1943400	1 43.5%
Blue whiting(=Poutassou)	2	1106448	2 25.0%	32000	9 0.7%
Saithe(=Pollock)	3	376840	4 8.5%	617000	3 13.8%
Norway pout	4	581021	3 13.1%	308400	4 6.9%
Haddock	5	295909	5 6.7%	866200	2 19.4%
Whiting	6	190454	6 4.3%	226500	6 5.1%
European hake	7	63577	7 1.4%	117100	7 2.6%
Ling	8	56484	8 1.3%	47700	8 1.1%
Tusk(=Cusk)	9	49008	9 1.1%	25500	10 0.6%
Pollack	10	17855	13 0.4%	5700	14 0.1%
Blue ling	11	36817	10 0.8%	6700	13 0.2%
Pouting(=Bib)	12	22578	11 0.5%	14900	11 0.3%
Roundnose grenadier	13	18780	12 0.4%	700	17 0.0%
Gadiformes nei	14	399	16 0.0%	12300	12 0.3%
Wachna cod(=Navaga)	15	3001	14 0.1%	2500	15 0.1%
Greater forkbeard	16	787	15 0.0%	1800	16 0.0%
Polar cod (=Arctic cod)	17	58	17 0.0%	243300	5 5.4%
Roughhead grenadier	18	0	18 0.0%	0	18 0.0%
Forkbeard	19	0	19 0.0%	0	19 0.0%
TOTALS		4429280	100.0%	4471700	100.0%



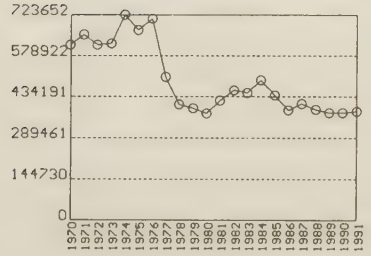
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic cod
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... -9.40 %
Rank..... 1 of 12 based on:1990
Percent to total..... 35.45 % , Cumulative: 35.45 %



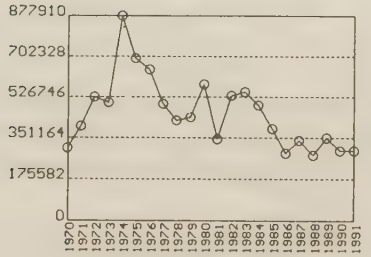
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blue whiting(=Poutassou)
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... 26.07 %
Rank..... 2 of 12 based on:1990
Percent to total..... 20.99 % , Cumulative: 56.44 %



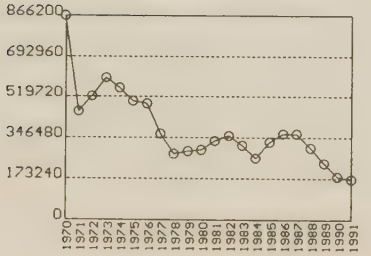
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Saithe(=Pollock)
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-10.77 %
Rank..... 3 of 12 based on:1990
Percent to total..... 14.03 % , Cumulative: 70.47 %



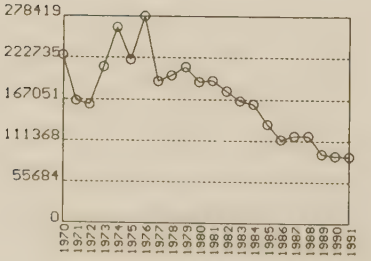
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Norway pout
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... -9.43 %
Rank..... 4 of 12 based on:1990
Percent to total..... 10.97 % , Cumulative: 81.45 %



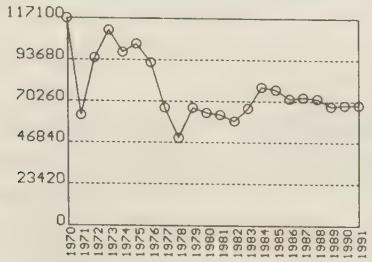
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Haddock
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 3 %
Trend.....-18.02 %
Rank..... 5 of 12 based on:1990
Percent to total..... 6.77 % , Cumulative: 88.22 %



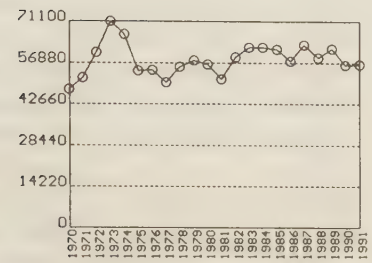
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Whiting
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend.....-13.37 %
Rank..... 6 of 12 based on:1990
Percent to total..... 3.38 % , Cumulative: 91.60 %



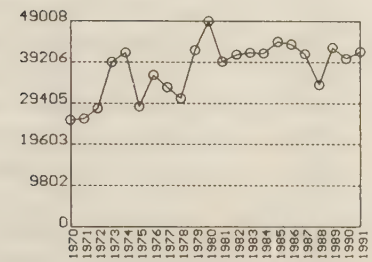
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European hake
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... -6.82 %
Rank..... 7 of 12 based on:1990
Percent to total..... 2.52 % , Cumulative: 94.12 %



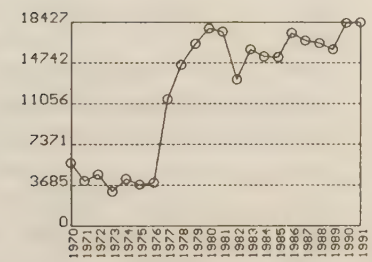
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Ling
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 0.94 %
Rank..... 8 of 12 based on:1990
Percent to total..... 2.09 % , Cumulative: 96.21 %



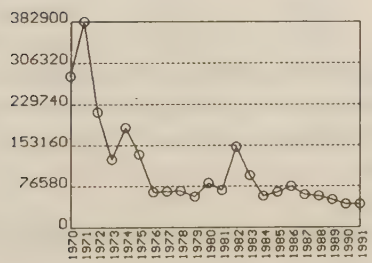
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tusk(=Cusk)
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 5.83 %
Rank..... 9 of 12 based on:1990
Percent to total..... 1.49 % , Cumulative: 97.70 %



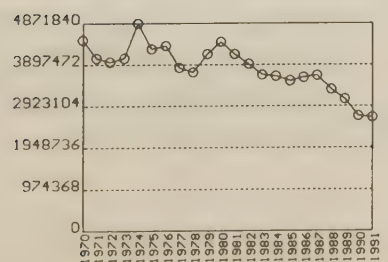
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Pollack
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 22.01 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.68 % , Cumulative: 98.38 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER CODS, HAKES, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-30.54 %
Rank..... 11 of 12 based on:1990
Percent to total..... 1.62 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CODS, HAKES, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... -6.35 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3.4 Production of redfishes, basses, congers, etc. (ISSCAAP GROUP 33).

Table 3.4.1

ATLANTIC, NORTHEAST
Redfishes, basses, congers, etc. (ISSCAAP GROUP 33), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Sandeels(=Sandlances)	1	753391	65.5 %	Rising
Atlantic redfishes	2	192227	16.7 %	Stable (+)
Angler(=Monk)	3	53368	4.6 %	Rising
Atlantic wolffish(=Catfish)	4	22841	2.0 %	Declining
Grey gurnard	5	22188	1.9 %	Sharp rise
Argentines	6	20328	1.8 %	Rising
Golden redfish	7	15016	1.3 %	Rising
European conger	8	11108	1.0 %	Rising
Sticklebacks	9	9310	0.8 %	Rising
Gurnards, searobins nei	10	8241	0.7 %	Declining
Lumpfish(=Lumpsucker)	11	7186	0.6 %	Rising
Demersal percomorphs nei	12	6621	0.6 %	Declining
Porgies, seabreams, nei	13	5481	0.5 %	Declining
Seabass	14	3778	0.3 %	Rising
Dentex nei	15	3207	0.3 %	Rising
Bogue	16	2623	0.2 %	Stable (+)
Wolffishes(=Catfishes)nei	17	2354	0.2 %	Rising
Red(=Blackspot)seabream	18	2223	0.2 %	Declining
John dory	19	1732	0.2 %	Rising
Scorpionfishes, nei	20	1319	0.1 %	Rising
Red mullet	21	1315	0.1 %	Rising
Gilthead seabream	22	930	0.1 %	Rising
Spotted wolffish(=Catfish)	23	787	0.1 %	Rising
Groupers, seabasses nei	24	599	0.1 %	Sharp rise
Wreckfish	25	446	0.0 %	Rising
Greater weever	26	375	0.0 %	Rising
Common pandora	27	289	0.0 %	Declining
Meagre	28	214	0.0 %	Declining
Dusky grouper	29	194	0.0 %	Declining
Red gurnard	30	169	0.0 %	Sharp rise
Grunts, sweetlips, nei	31	135	0.0 %	Declining
TOTAL REDFISHES, BASSES, ETC.		1150341	100.0 %	Rising

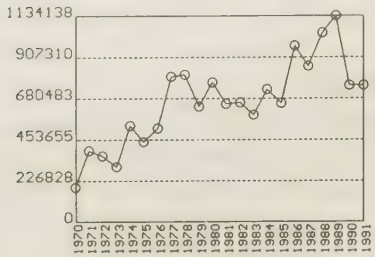
Proportion coming from declining catches.....	4.1 %
from stable catches.....	16.9 %
from rising catches.....	79.0 %

Major fishing countries ranked by 1990 production: Denmark:57.70%, Norway:13.34%, Iceland:9.94%, France:3.43%, USSR:3.34%, UK Scotland:2.94%, Spain:2.32%, Faeroe Is:1.60%, Portugal:1.38%, Germany NL:1.17%, UK Engld. Wal:0.65%, Germany FR:0.48%, Japan:0.44%, Netherlands:0.42%, Ireland:0.27%, Bulgaria:0.24%, Belgium:0.21%, UK No Ireld:0.05%, Sweden:0.02%, Channel Is:0.01%.

Table 3.4.2

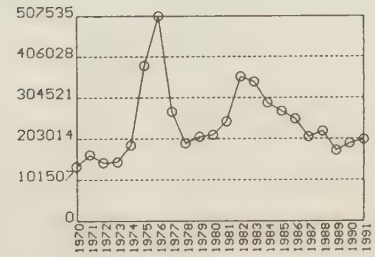
ATLANTIC, NORTHEAST
Ranking order and proportions of redfishes, basses, congers, etc., (ISSCAAP GROUP 33), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Sandeels(=Sandlances)	1	768760	1 67.4%	191600	1 41.3%
Atlantic redfishes	2	212961	2 18.7%	134700	2 29.1%
Angler(=Monk)	3	54411	3 4.8%	33000	3 7.1%
Atlantic wolffish(=Catfish)	4	21844	4 1.9%	26100	4 5.6%
Grey gurnard	5	48	31 0.0%	100	29 0.0%
Argentines	6	7378	10 0.7%	300	23 0.1%
Golden redfish	7	6564	11 0.6%	100	30 0.0%
European conger	8	8922	8 0.8%	7700	10 1.7%
Sticklebacks	9	6083	12 0.5%	0	39 0.0%
Gurnards, searobins nei	10	10190	6 0.9%	9800	7 2.1%
Lumpfish(=Lumpsucker)	11	9478	7 0.8%	7200	11 1.6%
Demersal percomorphs nei	12	562	22 0.1%	8700	9 1.9%
Porgies, seabreams, nei	13	10197	5 0.9%	11000	6 2.4%
Seabass	14	2422	14 0.2%	600	19 0.1%
Dentex nei	15	203	27 0.0%	100	28 0.0%
Bogue	16	1624	15 0.1%	2100	13 0.5%
Wolffishes(=Catfishes)nei	17	3400	13 0.3%	1300	14 0.3%
Red(=Blackspot)seabream	18	8310	9 0.7%	9400	8 2.0%
John dory	19	1029	17 0.1%	0	34 0.0%
Scorpionfishes, nei	20	1017	18 0.1%	300	22 0.1%
Red mullet	21	987	19 0.1%	700	18 0.2%
Gilthead seabream	22	221	26 0.0%	100	27 0.0%
Spotted wolffish(=Catfish)	23	854	21 0.1%	0	33 0.0%
Groupers, seabasses nei	24	25	33 0.0%	0	32 0.0%
Wreckfish	25	1	35 0.0%	200	26 0.0%
Greater weever	26	407	24 0.0%	300	25 0.1%
Common pandora	27	362	25 0.0%	800	17 0.2%
Meagre	28	484	23 0.0%	400	21 0.1%
Dusky grouper	29	965	20 0.1%	300	24 0.1%
Red gurnard	30	0	38 0.0%	0	37 0.0%
Grunts, sweetlips, nei	31	1478	16 0.1%	900	16 0.2%
TOTALS		1141479	100.0%	463700	100.0%



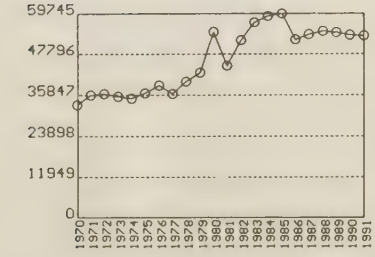
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sandeels(=Sandlances)
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 15.61 %
Rank..... 1 of 12 based on:1990
Percent to total..... 65.49 % , Cumulative: 65.49 %



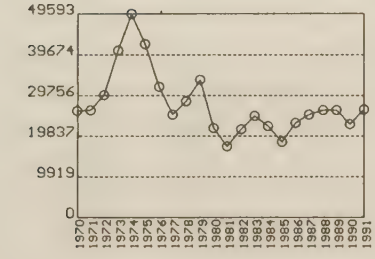
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic redfishes
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 1.38 %
Rank..... 2 of 12 based on:1990
Percent to total..... 16.71 % , Cumulative: 82.20 %



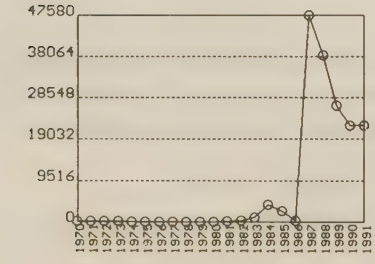
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Angler(=Monk)
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 9.49 %
Rank..... 3 of 12 based on:1990
Percent to total..... 4.64 % , Cumulative: 86.84 %



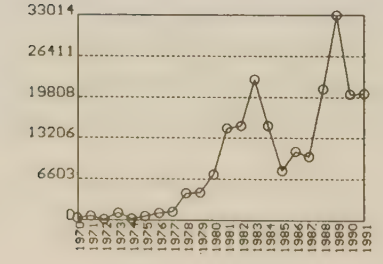
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic wolffish(=Catfish)
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -7.66 %
Rank..... 4 of 12 based on:1990
Percent to total..... 1.99 % , Cumulative: 88.83 %



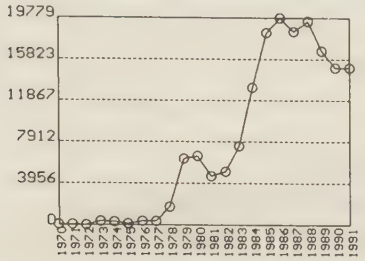
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Grey gurnard
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 67.61 %
Rank..... 5 of 12 based on:1990
Percent to total..... 1.93 % , Cumulative: 90.76 %



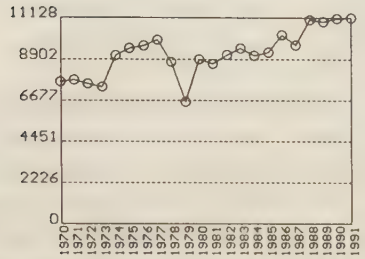
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Argentines
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 44.58 %
Rank..... 6 of 12 based on:1990
Percent to total..... 1.77 % , Cumulative: 92.52 %



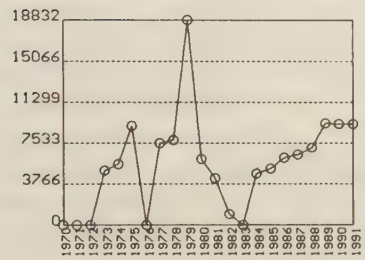
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Golden redfish
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... 48.51 %
Rank..... 7 of 12 based on:1990
Percent to total..... 1.31 % , Cumulative: 93.83 %



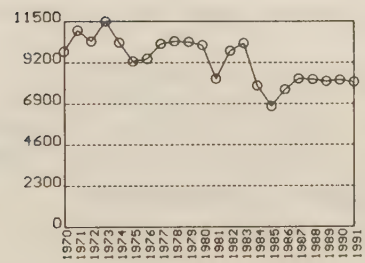
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European conger
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 5.64 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.97 % , Cumulative: 94.80 %



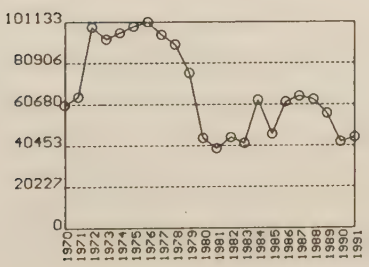
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sticklebacks
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 16.76 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.81 % , Cumulative: 95.60 %



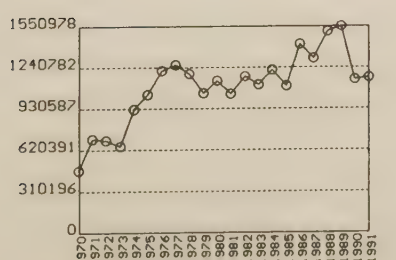
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Gurnards, searobins nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... -5.56 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.72 % , Cumulative: 96.32 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER REDFISHES, BASSES, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend.....-11.08 %
Rank..... 11 of 12 based on:1990
Percent to total..... 3.66 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL REDFISHES, BASSES, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 10.56 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3.5 Production of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34).

Table 3.5.1

ATLANTIC, NORTHEAST
Jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Capelin	1	797320	65.3 %	Declining
Atlantic horse mackerel	2	404764	33.1 %	Stable (+)
Pelagic percomorphs nei	3	13312	1.1 %	Declining
Atlantic pomfret	4	2441	0.2 %	Rising
Mullets nei	5	1759	0.1 %	Stable (+)
Garfish	6	1386	0.1 %	Declining
Bluefish	7	441	0.0 %	Rising
Silversides(=Sand smelts)	8	149	0.0 %	Rising
Atlantic saury	9	98	0.0 %	Declining
Leerfish(=Garrick)	10	8	0.0 %	Rising
Blue jack mackerel	11	0	0.0 %	Sharp rise
TOTAL JACKS, MULLETS, ETC.		1221678	100.0 %	Declining

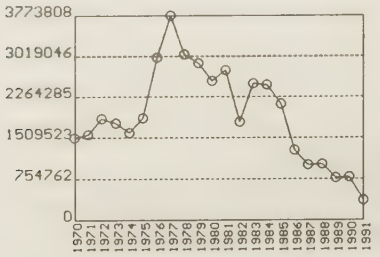
Proportion coming from declining catches.....	66.5 %
from stable catches.....	33.3 %
from rising catches.....	0.3 %

Major fishing countries ranked by 1990 production: Iceland:56.79%, Norway:16.97%, Denmark:6.02%, Netherlands:5.55%, Spain:4.58%, Ireland:2.91%, Portugal:1.85%, Faeroe Is:1.68%, UK Engld Wal:1.01%, Germany FR:0.99%, France:0.65%, UK Scotland:0.61%, UK No Ireld:0.25%, Germany NL:0.09%, USSR:0.05%.

Table 3.5.2

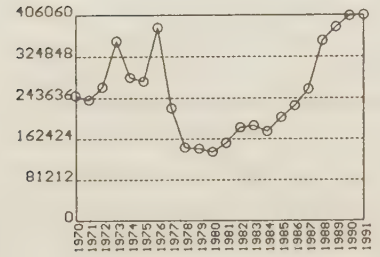
ATLANTIC, NORTHEAST
Ranking order and proportions of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Capelin	1	2562984	1 94.5%	1505900	1 85.3%
Atlantic horse mackerel	2	136721	2 5.0%	248800	2 14.1%
Pelagic percomorphs nei	3	6	10 0.0%	4600	3 0.3%
Atlantic pomfret	4	7183	3 0.3%	0	9 0.0%
Mullets nei	5	2105	4 0.1%	1600	5 0.1%
Garfish	6	2034	5 0.1%	3400	4 0.2%
Bluefish	7	150	8 0.0%	200	7 0.0%
Silversides(=Sand smelts)	8	373	7 0.0%	0	11 0.0%
Atlantic saury	9	406	6 0.0%	400	6 0.0%
Leerfish(=Garrick)	10	42	9 0.0%	0	8 0.0%
Blue jack mackerel	11	0	11 0.0%	0	10 0.0%
TOTALS		2712004	100.0%	1764900	100.0%



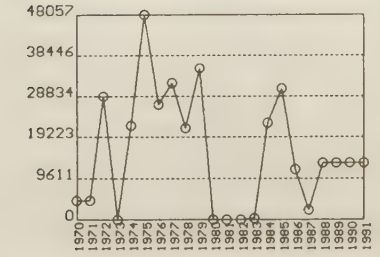
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Capelin
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-10.77 %
Rank..... 1 of 12 based on:1990
Percent to total..... 65.26 % , Cumulative: 65.26 %



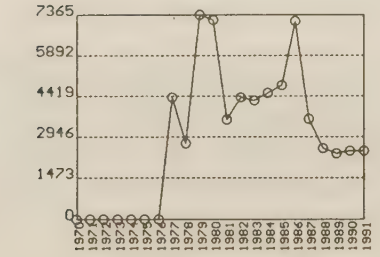
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic horse mackerel
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 4.67 %
Rank..... 2 of 12 based on:1990
Percent to total..... 33.13 % , Cumulative: 98.40 %



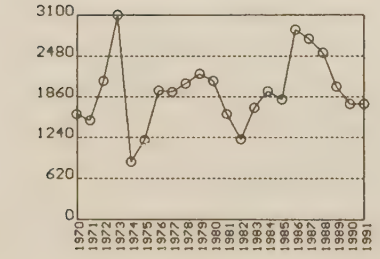
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Pelagic percomorphs nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 18 %
Trend..... -7.76 %
Rank..... 3 of 12 based on:1990
Percent to total..... 1.09 % , Cumulative: 99.49 %



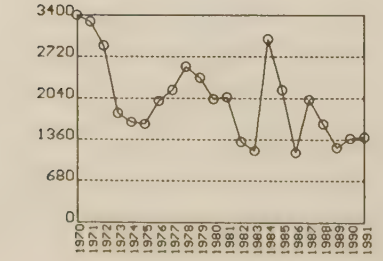
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic pomfret
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 23.23 %
Rank..... 4 of 12 based on:1990
Percent to total..... 0.20 % , Cumulative: 99.69 %



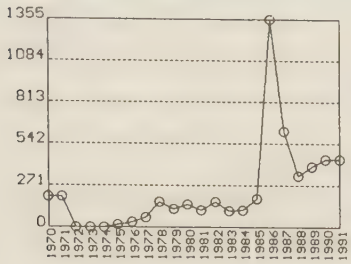
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mullets nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 3.53 %
Rank..... 5 of 12 based on:1990
Percent to total..... 0.14 % , Cumulative: 99.83 %



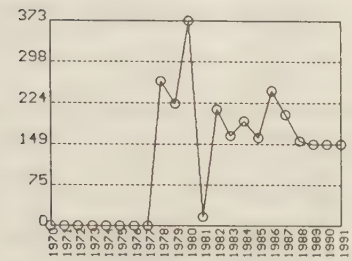
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Garfish
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 12 %
Trend.....-11.02 %
Rank..... 6 of 12 based on:1990
Percent to total..... 0.11 % , Cumulative: 99.94 %



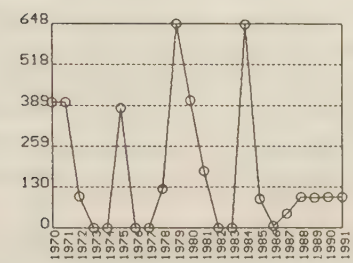
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bluefish
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 38.07 %
Rank..... 7 of 12 based on:1990
Percent to total..... 0.04 % , Cumulative: 99.98 %



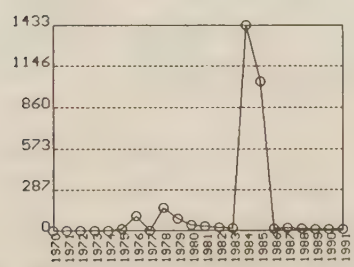
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Silversides(=Sand smelts)
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 29.56 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.01 % , Cumulative: 99.99 %



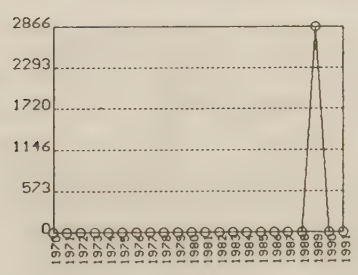
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic saury
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend.....-13.29 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.01 % , Cumulative:100.00 %



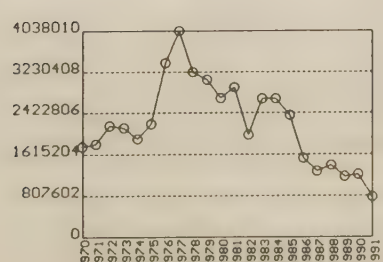
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Leerfish(=Garrick)
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 26.42 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blue jack mackerel
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 73.91 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL JACKS, MULLETS, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -8.88 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3.6 Production of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35).

Table 3.6.1

ATLANTIC, NORTHEAST
Herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic herring	1	1224697	76.1 %	Stable (+)
European sprat	2	190098	11.8 %	Declining
European pilchard(=Sardine)	3	176769	11.0 %	Stable (+)
European anchovy	4	17025	1.1 %	Declining
Clupeoids nei	5	448	0.0 %	Declining
Sardinellas nei	6	3	0.0 %	Stable (-)
TOTAL HERRINGS, SARDINES, ETC.		1609040	100.0 %	Stable (-)

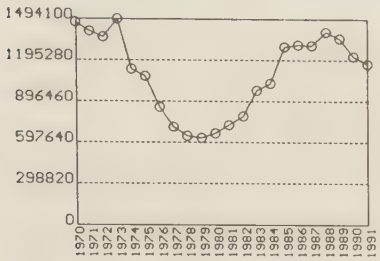
Proportion coming from declining catches.....	12.9 %
from stable catches.....	87.1 %
from rising catches.....	0.0 %

Major fishing countries ranked by 1990 production: Denmark:14.53%, Norway:13.16%, USSR:11.80%, Sweden:10.71%, UK Scotland:6.04%, Netherlands:5.91%, Portugal:5.84%, Iceland:5.61%, Poland:4.67%, Spain:4.67%, Finland:4.12%, Germany FR:3.46%, Ireland:3.33%, Germany NL:2.84%, France:1.72%, UK Engld Wal:0.79%, Faeroe Is:0.43%, UK No Ireld:0.31%, Isle Man:0.03%, Belgium:0.01%.

Table 3.6.2

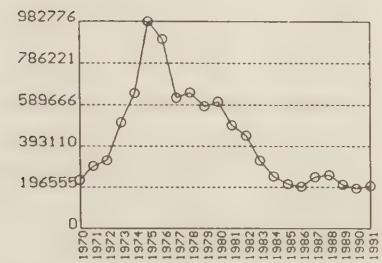
ATLANTIC, NORTHEAST
Ranking order and proportions of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic herring	1	664539	1 44.1%	1471100	1 77.8%
European sprat	2	604289	2 40.1%	232200	2 12.3%
European pilchard(=Sardine)	3	213343	3 14.2%	140100	3 7.4%
European anchovy	4	23662	4 1.6%	46800	4 2.5%
Clupeoids nei	5	137	6 0.0%	100	6 0.0%
Sardinellas nei	6	731	5 0.1%	100	5 0.0%
TOTALS		1506701	100.0%	1890400	100.0%



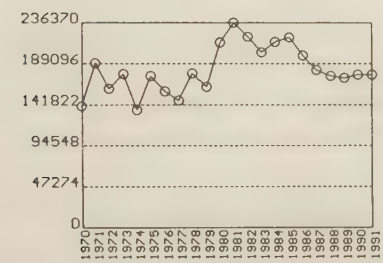
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic herring
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 0.35 %
Rank..... 1 of 6 based on:1990
Percent to total..... 76.11 % , Cumulative: 76.11 %



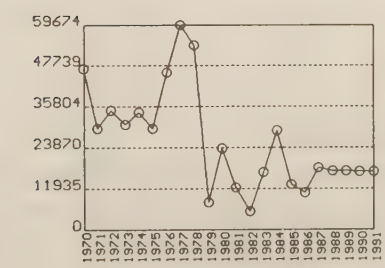
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European sprat
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend.....-15.38 %
Rank..... 2 of 6 based on:1990
Percent to total..... 11.81 % , Cumulative: 87.93 %



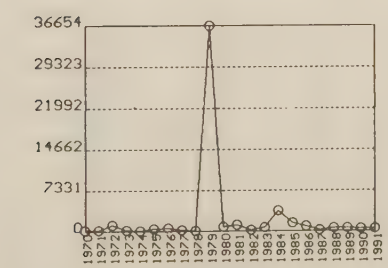
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European pilchard(=Sardine)
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 3.13 %
Rank..... 3 of 6 based on:1990
Percent to total..... 10.99 % , Cumulative: 98.91 %



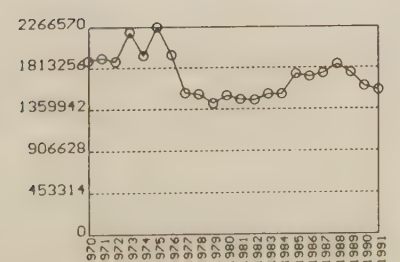
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European anchovy
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend.....-18.93 %
Rank..... 4 of 6 based on:1990
Percent to total..... 1.06 % , Cumulative: 99.97 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... -5.48 %
Rank..... 5 of 6 based on:1990
Percent to total..... 0.03 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... -3.53 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3.7 Production of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36).

Table 3.7.1

ATLANTIC, NORTHEAST
Tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Albacore	1	32148	64.8 %	Stable (-)
Swordfish	2	5108	10.3 %	Rising
Northern bluefin tuna	3	4961	10.0 %	Rising
Bigeye tuna	4	4205	8.5 %	Rising
Skipjack tuna	5	2252	4.5 %	Rising
Frigate and bullet tunas	6	582	1.2 %	Declining
Atlantic bonito	7	219	0.4 %	Sharp decl
Atlantic black skipjack	8	57	0.1 %	Declining
Yellowfin tuna	9	42	0.1 %	Rising
Tuna-like fishes nei	10	13	0.0 %	Sharp decl
TOTAL TUNAS, BONITOS, ETC.		49592	100.0 %	Stable (+)

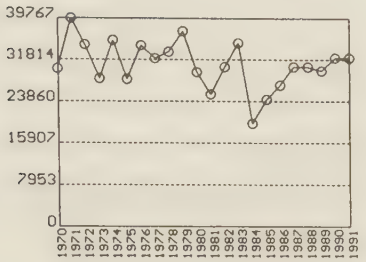
Proportion coming from declining catches.....	1.8 %
from stable catches.....	64.8 %
from rising catches.....	33.4 %

Major fishing countries ranked by 1990 production: Spain:70.28%, Portugal:19.35%, France:7.58%, Japan:2.77%, Other nei A:0.03%.

Table 3.7.2

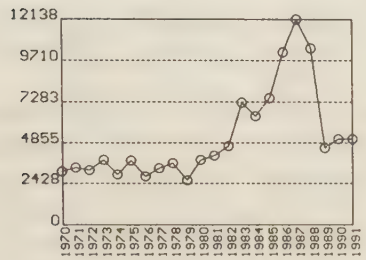
ATLANTIC, NORTHEAST
Ranking order and proportions of tunas, bonitos, etc., in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Albacore	1	29454	1 69.1%	30115	1 69.9%
Swordfish	2	3849	2 9.0%	3169	3 7.4%
Northern bluefin tuna	3	2590	4 6.1%	4148	2 9.6%
Bigeye tuna	4	3657	3 8.6%	3047	4 7.1%
Skipjack tuna	5	1689	5 4.0%	124	9 0.3%
Frigate and bullet tunas	6	450	7 1.1%	264	7 0.6%
Atlantic bonito	7	228	8 0.5%	1615	5 3.8%
Atlantic black skipjack	8	480	6 1.1%	148	8 0.3%
Yellowfin tuna	9	8	10 0.0%	4	10 0.0%
Tuna-like fishes nei	10	227	9 0.5%	434	6 1.0%
TOTALS		42632	100.0%	43070	100.0%



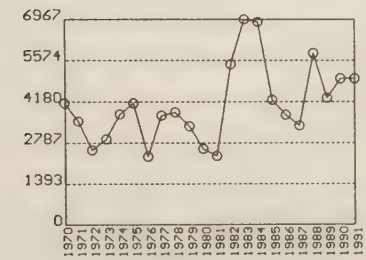
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Albacore
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 17 %
Trend..... -2.73 %
Rank..... 1 of 6 based on:1990
Percent to total..... 64.82 % , Cumulative: 64.82 %



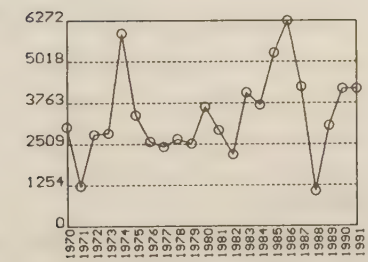
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Swordfish
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 17.99 %
Rank..... 2 of 6 based on:1990
Percent to total..... 10.30 % , Cumulative: 75.13 %



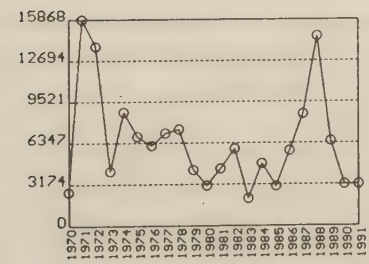
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Northern bluefin tuna
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 8.20 %
Rank..... 3 of 6 based on:1990
Percent to total..... 10.00 % , Cumulative: 85.13 %



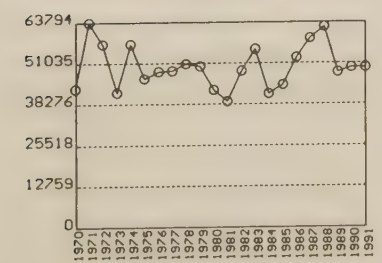
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bigeye tuna
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 6.30 %
Rank..... 4 of 6 based on:1990
Percent to total..... 8.48 % , Cumulative: 93.61 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER TUNAS, BONITOS, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -8.43 %
Rank..... 5 of 6 based on:1990
Percent to total..... 6.38 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL TUNAS, BONITOS, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 19 %
Trend..... 0.19 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3.8 Production of mackerels, snoeks, cutlassfishes, etc. (ISSCAAP GROUP 37).

Table 3.8.1

ATLANTIC, NORTHEAST
Mackerels, snoeks, cutlassfishes, etc. (ISSCAAP GROUP 37), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic mackerel	1	585317	97.8 %	Stable (+)
Chub mackerel	2	9346	1.6 %	Declining
Black scabbardfish	3	3321	0.6 %	Sharp rise
Silver scabbardfish	4	724	0.1 %	Declining
Mackerels, nei	5	0	0.0 %	Sharp rise
TOTAL MACKERELS, SNOEKS, ETC.		598708	100.0 %	Stable (+)

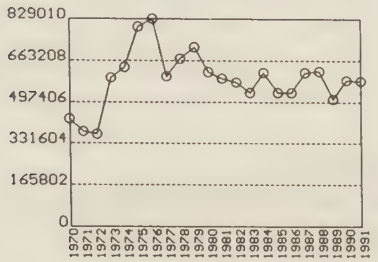
Proportion coming from declining catches.....	1.7 %
from stable catches.....	97.8 %
from rising catches.....	0.6 %

Major fishing countries ranked by 1990 production: UK Scotland:28.89%, Norway:25.28%, Ireland:12.58%, Netherlands:5.24%, USSR:5.01%, Denmark:4.92%, Spain:3.81%, Germany FR:3.61%, Portugal:2.83%, UK Engld Wal:2.31%, France:1.99%, Faeroe Is:1.68%, UK No Ireld:1.06%, Sweden:0.60%, Bulgaria:0.20%, Belgium:0.01%.

Table 3.8.2

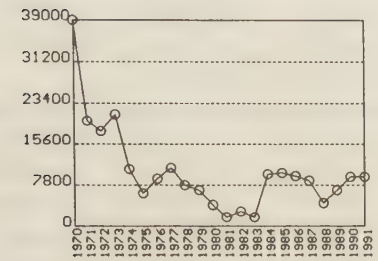
ATLANTIC, NORTHEAST
Ranking order and proportions of mackerels, snoeks, cutlassfishes, etc. (ISSCAAP GROUP 37), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic mackerel	1	620073	1 98.7%	430500	1 90.7%
Chub mackerel	2	3989	2 0.6%	39000	2 8.2%
Black scabbardfish	3	0	4 0.0%	0	4 0.0%
Silver scabbardfish	4	3977	3 0.6%	5000	3 1.1%
Mackerels, nei	5	0	5 0.0%	0	5 0.0%
TOTALS		628039	100.0%	474500	100.0%



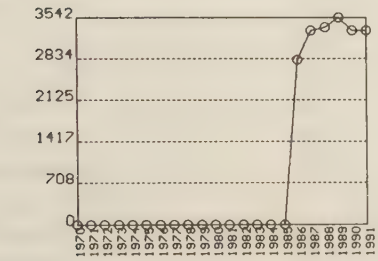
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic mackerel
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 1.06 %
Rank..... 1 of 6 based on:1990
Percent to total..... 97.76 % , Cumulative: 97.76 %



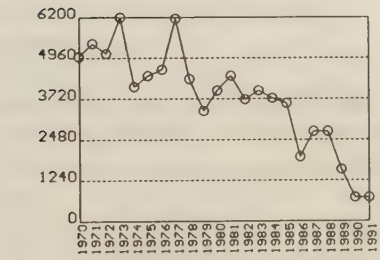
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Chub mackerel
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend.....-24.83 %
Rank..... 2 of 6 based on:1990
Percent to total..... 1.56 % , Cumulative: 99.32 %



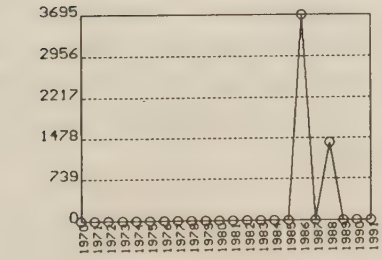
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Black scabbardfish
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 0 %
Trend..... 70.16 %
Rank..... 3 of 6 based on:1990
Percent to total..... 0.55 % , Cumulative: 99.88 %



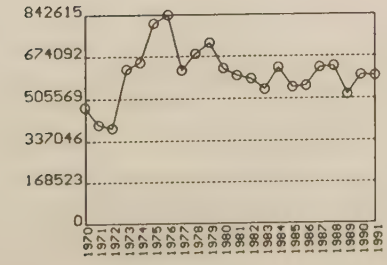
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Silver scabbardfish
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-19.06 %
Rank..... 4 of 6 based on:1990
Percent to total..... 0.12 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mackerels, nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 52.60 %
Rank..... 5 of 6 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MACKERELS, SNOEKS, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 0.61 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3.9 Production of sharks, rays, chimaeras, etc. (ISSCAAP GROUP 38).

Table 3.9.1

ATLANTIC, NORTHEAST
Sharks, rays, chimaeras, etc. (ISSCAAP GROUP 38), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Picked(=Spiny)dogfish	1	35741	40.6 %	Stable (-)
Skates	2	22602	25.7 %	Stable (-)
Dogfishes and hounds	3	12149	13.8 %	Rising
Cuckoo ray	4	5145	5.8 %	Sharp rise
Various sharks nei	5	4460	5.1 %	Sharp rise
Thornback ray	6	2319	2.6 %	Rising
Basking shark	7	1932	2.2 %	Declining
Sharks, rays, skates, etc	8	1406	1.6 %	Declining
Spotted ray	9	943	1.1 %	Sharp rise
Porbeagle	10	559	0.6 %	Declining
Blue skate	11	356	0.4 %	Rising
Dogfish sharks nei	12	191	0.2 %	Stable (+)
Longnosed skate	13	94	0.1 %	Sharp rise
Blue shark	14	91	0.1 %	Sharp rise
Shagreen ray	15	63	0.1 %	Rising
Greenland shark	16	54	0.1 %	Declining
Angelsharks, sand devils	17	15	0.0 %	Rising
Torpedo spp	18	4	0.0 %	Sharp rise
Eagle rays	19	3	0.0 %	Rising
TOTAL SHARKS, RAYS, ETC.		88127	100.0 %	Stable (-)

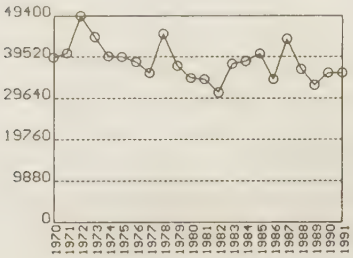
Proportion coming from declining catches.....	4.5 %
from stable catches.....	66.4 %
from rising catches.....	29.1 %

Major fishing countries ranked by 1990 production: France:38.15%, UK Scotland:13.49%, Norway:12.59%, UK Engld Wal:10.14%, Portugal:7.00%, Spain:6.01%, Ireland:5.67%, Belgium:2.15%, Denmark:1.68%, UK No Ireld:0.92%, USSR:0.52%, Iceland:0.51%, Sweden:0.46%, Faeroe Is:0.20%, Channel Is:0.19%, Isle Man:0.15%, Japan:0.07%, Germany NL:0.06%, Germany FR:0.04%.

Table 3.9.2

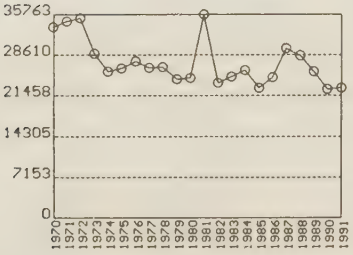
ATLANTIC, NORTHEAST
Ranking order and proportions of sharks, rays, chimaeras, etc. (ISSCAAP GROUP 38), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Picked(=Spiny)dogfish	1	34402	1 41.6%	39400	1 35.3%
Skates	2	24658	2 29.8%	33600	2 30.1%
Dogfishes and hounds	3	5926	4 7.2%	500	7 0.5%
Cuckoo ray	4	493	9 0.6%	0	9 0.0%
Various sharks nei	5	97	11 0.1%	300	8 0.3%
Thornback ray	6	1951	7 2.4%	0	10 0.0%
Basking shark	7	8027	3 9.7%	18700	3 16.8%
Sharks, rays, skates, etc	8	3350	5 4.1%	14200	4 12.7%
Spotted ray	9	0	18 0.0%	0	17 0.0%
Porbeagle	10	1173	8 1.4%	4300	5 3.9%
Blue skate	11	259	10 0.3%	0	19 0.0%
Dogfish sharks nei	12	2280	6 2.8%	600	6 0.5%
Longnosed skate	13	0	16 0.0%	0	15 0.0%
Blue shark	14	12	14 0.0%	0	13 0.0%
Shagreen ray	15	0	19 0.0%	0	18 0.0%
Greenland shark	16	48	12 0.1%	0	11 0.0%
Angelsharks, sand devils	17	25	13 0.0%	0	12 0.0%
Torpedo spp	18	0	17 0.0%	0	16 0.0%
Eagle rays	19	8	15 0.0%	0	14 0.0%
TOTALS		82709	100.0%	111600	100.0%



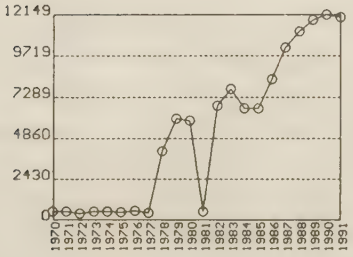
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Picked(=Spiny)dogfish
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -3.02 %
Rank..... 1 of 12 based on:1990
Percent to total..... 40.56 % , Cumulative: 40.56 %



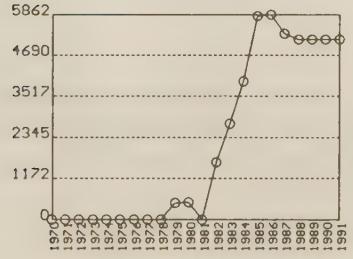
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Skates
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -4.52 %
Rank..... 2 of 12 based on:1990
Percent to total..... 25.65 % , Cumulative: 66.20 %



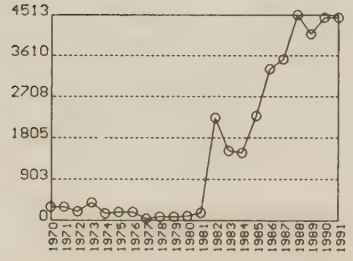
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Dogfishes and hounds
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 43.63 %
Rank..... 3 of 12 based on:1990
Percent to total..... 13.79 % , Cumulative: 79.99 %



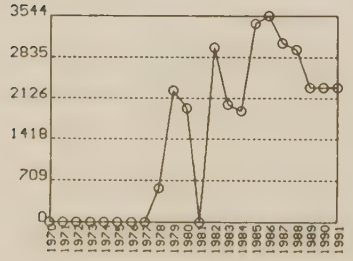
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cuckoo ray
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 55.71 %
Rank..... 4 of 12 based on:1990
Percent to total..... 5.84 % , Cumulative: 85.83 %



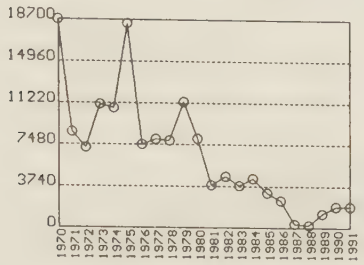
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Various sharks nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 52.86 %
Rank..... 5 of 12 based on:1990
Percent to total..... 5.06 % , Cumulative: 90.89 %



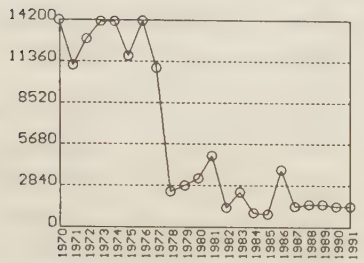
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Thornback ray
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 42.16 %
Rank..... 6 of 12 based on:1990
Percent to total..... 2.63 % , Cumulative: 93.52 %



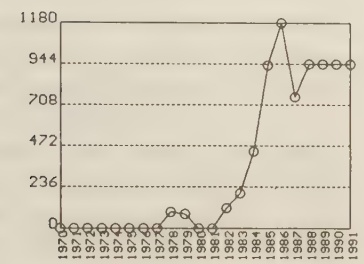
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Basking shark
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-34.69 %
Rank..... 7 of 12 based on:1990
Percent to total..... 2.19 % , Cumulative: 95.71 %



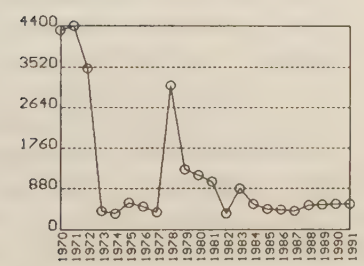
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sharks, rays, skates, etc
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-41.54 %
Rank..... 8 of 12 based on:1990
Percent to total..... 1.60 % , Cumulative: 97.31 %



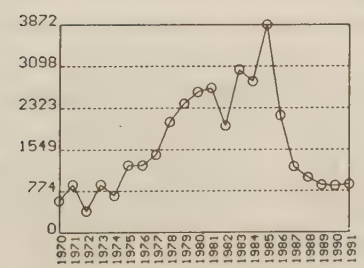
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Spotted ray
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 59.04 %
Rank..... 9 of 12 based on:1990
Percent to total..... 1.07 % , Cumulative: 98.38 %



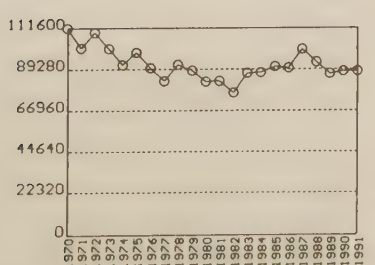
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Porbeagle
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-35.51 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.63 % , Cumulative: 99.01 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER SHARKS, RAYS, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 8.44 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.98 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL SHARKS, RAYS, ETC.
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... -2.63 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3.10 Production of crustaceans (ISSCAAP GROUPS 41-47).

Table 3.10.1

ATLANTIC, NORTHEAST
Crustaceans (ISSCAAP GROUPS 41-47),
ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Northern prawn	1	132905	55.7 %	Rising
Norway lobster	2	47814	20.1 %	Rising
Edible crab	3	27773	11.7 %	Rising
Common shrimp	4	16700	7.0 %	Declining
Spinous spider crab	5	3641	1.5 %	Stable (+)
European lobster	6	2149	0.9 %	Stable (+)
Pink(=Pandalid)shrimps	7	1804	0.8 %	Rising
Swimcrabs	8	1345	0.6 %	Rising
Crangonid shrimps	9	899	0.4 %	Declining
Marine crabs nei	10	745	0.3 %	Rising
Palaemonid shrimps	11	566	0.2 %	Stable (-)
Palinurid spiny lobsters nei	12	446	0.2 %	Declining
Marine crustaceans nei	13	443	0.2 %	Declining
Penaeus shrimps nei	14	430	0.2 %	Declining
Green crab	15	389	0.2 %	Stable (+)
Natantian decapods nei	16	135	0.1 %	Sharp decl
Common prawn	17	121	0.1 %	Stable (-)
Barnacle	18	112	0.1 %	Sharp rise
Goose barnacles	19	1	0.0 %	Sharp rise
Caramote prawn	20	0	0.0 %	Sharp decl
Craylets, squat lobsters	21	0	0.0 %	Sharp rise
TOTAL CRUSTACEANS		238418	100.0 %	Rising

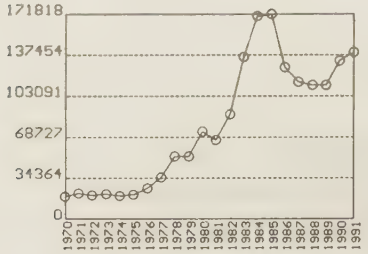
Proportion coming from declining catches.....	8.0 %
from stable catches.....	2.9 %
from rising catches.....	89.1 %

Major fishing countries ranked by 1990 production: Norway:26.92%, Iceland:13.19%, UK Scotland:9.64%, France:9.51%, USSR:8.51%, UK Engld Wal:4.63%, Denmark:4.16%, Ireland:3.63%, Netherlands:3.18%, Faeroe Is:3.12%,Germany FR:3.05%, Greenland:2.61%, UK No Ireld:2.49%, Spain:1.79%, Sweden:1.17%, Channel Is:1.03%, Portugal:0.75%, Belgium:0.59%, Isle Man:0.03%.

Table 3.10.2

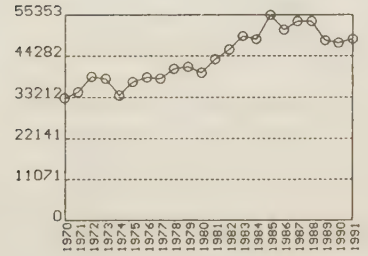
ATLANTIC, NORTHEAST
Ranking order and proportions of crustaceans (ISSCAAP GROUPS 41-47), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Northern prawn	1	73785	1 41.0%	19000	4 13.6%
Norway lobster	2	39819	2 22.1%	33000	2 23.5%
Edible crab	3	25358	4 14.1%	21200	3 15.1%
Common shrimp	4	26006	3 14.5%	52600	1 37.5%
Spinous spider crab	5	7415	5 4.1%	200	15 0.1%
European lobster	6	1795	6 1.0%	2000	8 1.4%
Pink(=Pandalid)shrimps	7	406	11 0.2%	100	17 0.1%
Swimcrabs	8	1159	8 0.6%	400	13 0.3%
Crangonid shrimps	9	1608	7 0.9%	2700	7 1.9%
Marine crabs nei	10	369	13 0.2%	0	18 0.0%
Palaemonid shrimps	11	785	9 0.4%	700	9 0.5%
Palinurid spiny lobsters nei	12	405	12 0.2%	700	11 0.5%
Marine crustaceans nei	13	670	10 0.4%	3100	5 2.2%
Penaeus shrimps nei	14	0	17 0.0%	700	10 0.5%
Green crab	15	36	16 0.0%	600	12 0.4%
Natantian decapods nei	16	247	14 0.1%	2900	6 2.1%
Common prawn	17	73	15 0.0%	100	16 0.1%
Barnacle	18	0	21 0.0%	0	20 0.0%
Goose barnacles	19	0	18 0.0%	0	21 0.0%
Caramote prawn	20	0	19 0.0%	200	14 0.1%
Craylets, squat lobsters	21	0	20 0.0%	0	19 0.0%
TOTALS		179936	100.0%	140200	100.0%



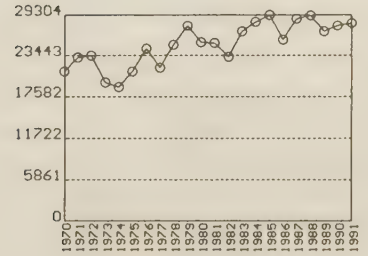
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Northern prawn
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 32.10 %
Rank..... 1 of 12 based on:1990
Percent to total..... 55.74 % , Cumulative: 55.74 %



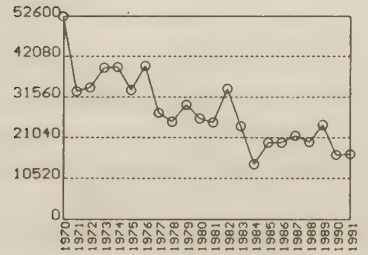
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Norway lobster
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 7.58 %
Rank..... 2 of 12 based on:1990
Percent to total..... 20.05 % , Cumulative: 75.80 %



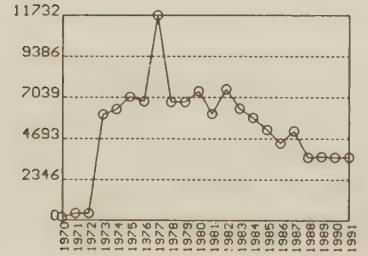
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Edible crab
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 5.51 %
Rank..... 3 of 12 based on:1990
Percent to total..... 11.65 % , Cumulative: 87.45 %



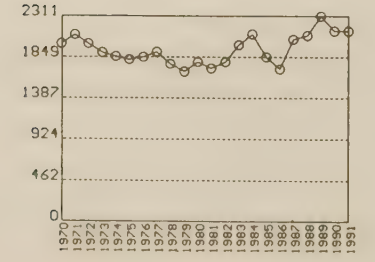
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common shrimp
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-15.28 %
Rank..... 4 of 12 based on:1990
Percent to total..... 7.00 % , Cumulative: 94.45 %



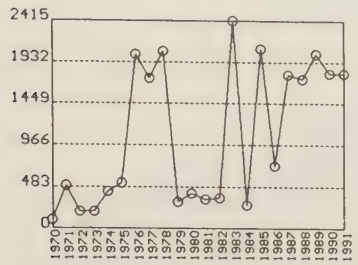
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Spinous spider crab
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 1.92 %
Rank..... 5 of 12 based on:1990
Percent to total..... 1.53 % , Cumulative: 95.98 %



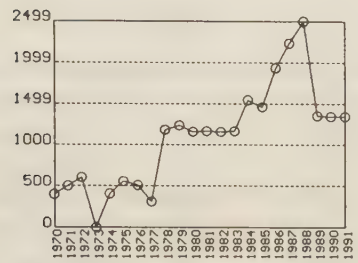
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European lobster
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 1.65 %
Rank..... 6 of 12 based on:1990
Percent to total..... 0.90 % , Cumulative: 96.88 %



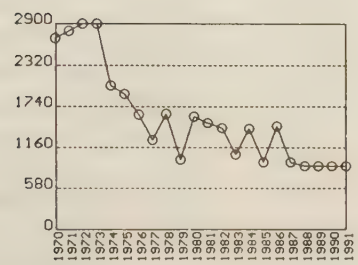
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Pink(=Pandalid)shrimps
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 25 %
Trend..... 23.06 %
Rank..... 7 of 12 based on:1990
Percent to total..... 0.76 % , Cumulative: 97.64 %



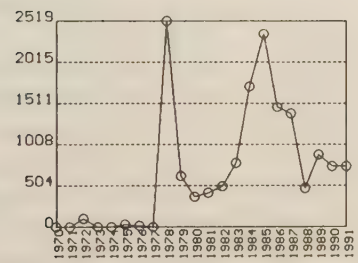
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Swimcrabs
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 25.67 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.56 % , Cumulative: 98.20 %



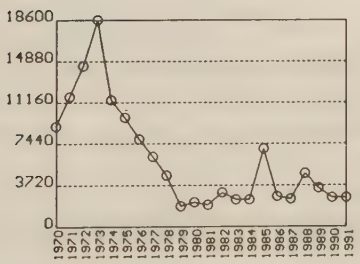
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Crangonid shrimps
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-20.42 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.38 % , Cumulative: 98.58 %



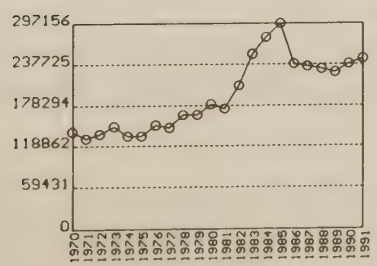
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marine crabs nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 31.07 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.31 % , Cumulative: 98.89 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER CRUSTACEANS
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend.....-30.45 %
Rank..... 11 of 12 based on:1990
Percent to total..... 1.12 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CRUSTACEANS
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 12.63 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

3.11 Production of molluscs (ISSCAAP GROUPS 51-58).

Table 3.11.1

ATLANTIC, NORTHEAST
Molluscs (ISSCAAP GROUPS 51-58), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Blue mussel	1	463236	58.5 %	Rising
Cupped oysters nei	2	142000	17.9 %	Rising
Common cockle	3	32600	4.1 %	Stable (-)
Cuttlefishes, bobtail squids	4	21627	2.7 %	Rising
Queen scallop	5	17508	2.2 %	Rising
Common scallop	6	14467	1.8 %	Declining
Octopuses	7	13824	1.7 %	Stable (-)
Whelk	8	12555	1.6 %	Rising
Icelandic scallop	9	12117	1.5 %	Rising
Scallops nei	10	10731	1.4 %	Sharp rise
Grooved carpet shell	11	9859	1.2 %	Rising
Clams nei	12	7022	0.9 %	Rising
European flat oyster	13	6650	0.8 %	Declining
Common cuttlefish	14	5710	0.7 %	Declining
Common squids	15	5326	0.7 %	Stable (-)
Squids nei	16	4983	0.6 %	Declining
Periwinkle	17	3017	0.4 %	Stable (-)
Shortfin(Northern)squid	18	2943	0.4 %	Rising
Marine molluscs nei	19	1524	0.2 %	Declining
Striped venus	20	1434	0.2 %	Declining
Carpet shell	21	1355	0.2 %	Declining
Razor clams	22	1195	0.2 %	Rising
Pacific cupped oyster	23	357	0.1 %	Sharp rise
Periwinkles nei	24	269	0.0 %	Declining
Portuguese cupped oyster	25	79	0.0 %	Sharp decl
Flat oysters nei	26	0	0.0 %	Rising
Sea mussels nei	27	0	0.0 %	Sharp rise
European flying squid	28	0	0.0 %	Rising
Horse mussels	29	0	0.0 %	Sharp rise
TOTAL MOLLUSCS		792388	100.0 %	Rising

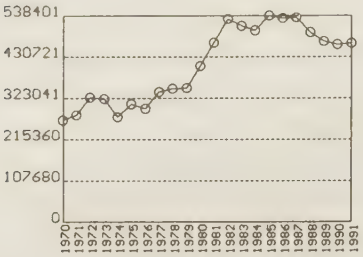
Proportion coming from declining catches.....	4.6 %
from stable catches.....	6.9 %
from rising catches.....	88.5 %

Major fishing countries ranked by 1990 production: France:32.22%, Spain:24.56%, Netherlands:12.62%, Denmark:12.17%, UK Engld Wal:3.72%, Germany FR:3.04%, Ireland:2.68%, Portugal:2.36%, UK Scotland:2.10%, Iceland:1.53%, Faeroe Is:1.06%, Norway:0.68%, Isle Man:0.40%, USSR:0.39%, UK No Ireld:0.18%, Sweden:0.15%, Belgium:0.13%, Channel Is:0.02%.

Table 3.11.2

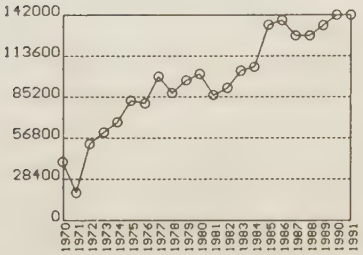
ATLANTIC, NORTHEAST
Ranking order and proportions of molluscs (ISSCAAP GROUPS 51-58), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Blue mussel	1	406947	1 63.2%	266000	1 57.2%
Cupped oysters nei	2	101301	2 15.7%	40300	2 8.7%
Common cockle	3	29038	3 4.5%	33100	3 7.1%
Cuttlefishes, bobtail squids	4	2417	17 0.4%	100	22 0.0%
Queen scallop	5	9859	6 1.5%	4400	12 1.0%
Common scallop	6	26697	4 4.1%	17700	6 3.8%
Octopuses	7	13090	5 2.0%	19600	5 4.2%
Whelk	8	5149	9 0.8%	2500	15 0.5%
Icelandic scallop	9	9079	7 1.4%	2400	16 0.5%
Scallops nei	10	593	23 0.1%	100	23 0.0%
Grooved carpet shell	11	769	21 0.1%	400	20 0.1%
Clams nei	12	393	24 0.1%	0	24 0.0%
European flat oyster	13	6955	8 1.1%	21200	4 4.6%
Common cuttlefish	14	1395	19 0.2%	6000	10 1.3%
Common squids	15	4159	11 0.7%	5200	11 1.1%
Squids nei	16	3424	15 0.5%	8200	9 1.8%
Periwinkle	17	4105	12 0.6%	3200	14 0.7%
Shortfin(Northern)squid	18	1178	20 0.2%	0	29 0.0%
Marine molluscs nei	19	3954	13 0.6%	14400	7 3.1%
Striped venus	20	4648	10 0.7%	11700	8 2.5%
Carpet shell	21	3939	14 0.6%	1600	18 0.3%
Razor clams	22	1536	18 0.2%	200	21 0.0%
Pacific cupped oyster	23	30	26 0.0%	0	25 0.0%
Periwinkles nei	24	746	22 0.1%	500	19 0.1%
Portuguese cupped oyster	25	32	25 0.0%	3900	13 0.8%
Flat oysters nei	26	0	27 0.0%	0	26 0.0%
Sea mussels nei	27	0	28 0.0%	0	27 0.0%
European flying squid	28	2993	16 0.5%	2400	17 0.5%
Horse mussels	29	0	29 0.0%	0	28 0.0%
TOTALS		644426	100.0%	465100	100.0%



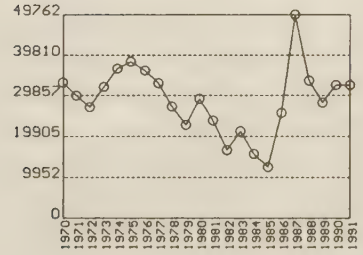
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blue mussel
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 11.25 %
Rank..... 1 of 12 based on:1990
Percent to total..... 58.46 % , Cumulative: 58.46 %



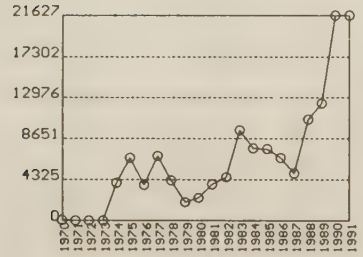
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cupped oysters nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 18.09 %
Rank..... 2 of 12 based on:1990
Percent to total..... 17.92 % , Cumulative: 76.38 %



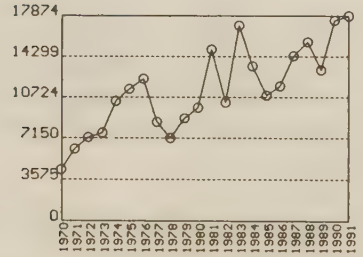
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common cockle
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... -1.85 %
Rank..... 3 of 12 based on:1990
Percent to total..... 4.11 % , Cumulative: 80.50 %



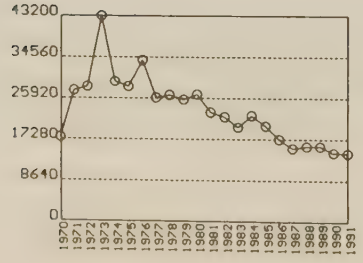
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cuttlefishes, bobtail squids
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 40.74 %
Rank..... 4 of 12 based on:1990
Percent to total..... 2.73 % , Cumulative: 83.22 %



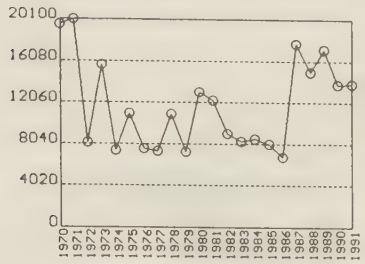
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Queen scallop
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 14.78 %
Rank..... 5 of 12 based on:1990
Percent to total..... 2.21 % , Cumulative: 85.43 %



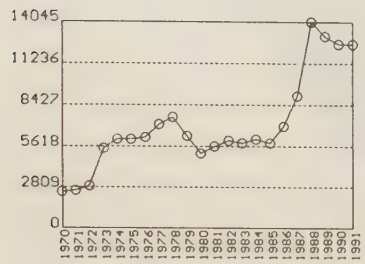
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common scallop
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-12.25 %
Rank..... 6 of 12 based on:1990
Percent to total..... 1.83 % , Cumulative: 87.26 %



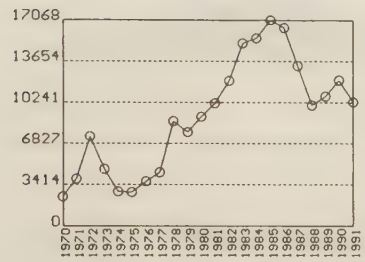
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Octopuses
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 25 %
Trend..... -0.07 %
Rank..... 7 of 12 based on:1990
Percent to total..... 1.74 % , Cumulative: 89.00 %



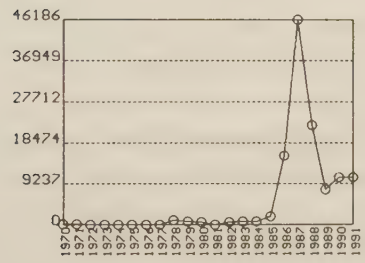
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Whelk
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 20.36 %
Rank..... 8 of 12 based on:1990
Percent to total..... 1.58 % , Cumulative: 90.59 %



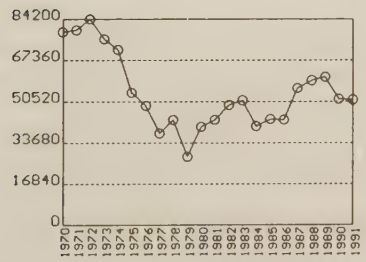
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Icelandic scallop
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 21.44 %
Rank..... 9 of 12 based on:1990
Percent to total..... 1.53 % , Cumulative: 92.12 %



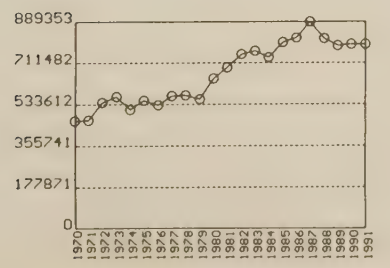
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Scallops nei
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 60.99 %
Rank..... 10 of 12 based on:1990
Percent to total..... 1.35 % , Cumulative: 93.47 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER MOLLUSCS
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

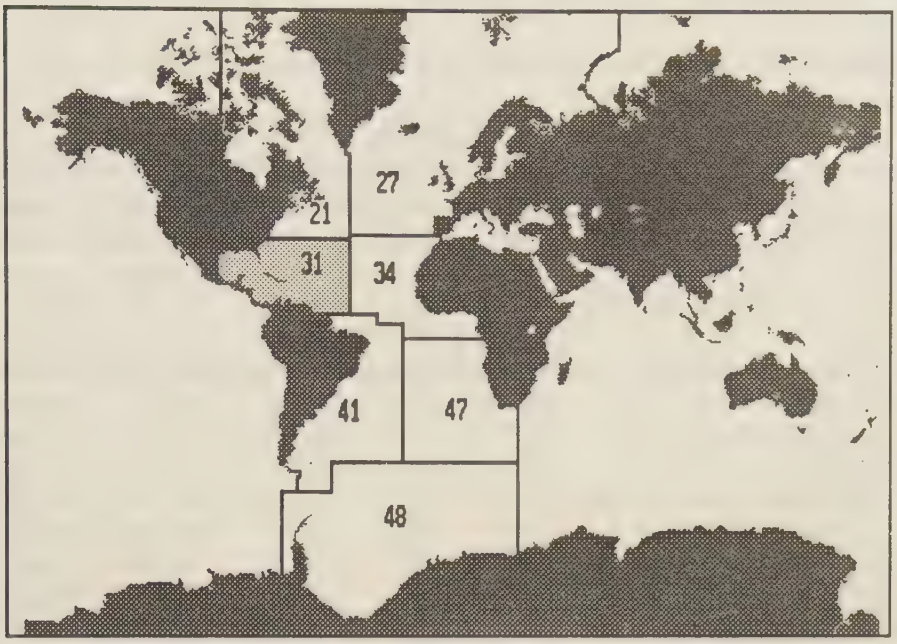
Fluctuation..... 6 %
Trend..... -7.34 %
Rank..... 11 of 12 based on:1990
Percent to total..... 6.52 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MOLLUSCS
Area.....ATLANTIC, NORTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 10.12 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

4. ATLANTIC, WESTERN CENTRAL (Area 31)



Major producers of fish, crustaceans and molluscs (1990 ranking): USA:62.74%, Venezuela:15.89%, Mexico:13.43%, Cuba:2.43%, Dominican Rp:1.12%, Colombia:0.83%, Bahamas:0.51%, Guyana:0.28%, Fr Guiana:0.27%, Guadeloupe:0.23%, Other nei A:0.22%, Barbados:0.21%, Honduras:0.21%, Trinidad Tob:0.21%, Japan:0.20%, Panama:0.19%, Puerto Rico:0.14%, Spain:0.13%, Korea Rep:0.12%.

Major species and percentages based on 1990 ranking: Gulf menhaden:37.44%, American cupped oyster:8.62%, Northern brown shrimp:5.67%, Round sardinella:4.28%, Penaeus shrimps nei:3.55%, Blue crab:2.99%, Northern white shrimp:2.46%, Atlantic menhaden:2.43%, Ark clams:2.14%, Groupers nei:2.03%, Caribbean spiny lobster:1.58%, Snappers, jobfishes, nei:1.43%, Atlantic Spanish mackerel:1.15%, Mullets nei:1.15%, Flathead grey mullet:1.13%, Yellowfin tuna:1.13%, Common octopus:1.11%, Sharks, rays, skates, etc:1.07%, Weakfishes nei:0.93%, Requiem sharks:0.84%, Calico scallop:0.81%, Ponyfishes(=Slipmouths)nei:0.71%, Jacks, crevalles, nei:0.66%, Clams nei:0.64%, Northern pink shrimp:0.61%, Grunts, sweetlips, nei:0.55%, Atlantic thread herring:0.54%, Sea catfishes nei:0.53%, Mangrove cupped oyster:0.50%, Marine molluscs nei:0.49%, Northern red snapper:0.48%, Stromboid conchs:0.41%, Albacore:0.40%, King mackerel:0.38%, Atlantic seabob:0.36%, Yellowtail snapper:0.35%, Demersal percomorphs nei:0.35%, Whitemouth croaker:0.34%, Skipjack tuna:0.34%, Largehead hairtail:0.34%, OTHER SPECIES:7.08%.

4.1 Production of diadromous fish (ISSCAAP GROUPS 21-25). Negligible.
4.2 Production of flounders, halibuts, soles, etc. (ISSCAAP GROUP 31). Negligible.
4.3 Production of cods, hakes, haddocks, etc. (ISSCAAP GROUP 32). Negligible.

4.4 Production of redfishes, basses, congers, etc. (ISSCAAP GROUP 33).

Table 4.4.1
ATLANTIC, WESTERN CENTRAL
Redfishes, basses, congers, etc. (ISSCAAP GROUP 33), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Groupers nei	1	28140	20.6 %	Rising
Snappers, jobfishes, nei	2	19840	14.5 %	Rising
Weakfishes nei	3	12844	9.4 %	Stable (+)
Ponyfishes(=Slipmouths)nei	4	9906	7.3 %	Rising
Grunts, sweetlips, nei	5	7575	5.6 %	Declining
Sea catfishes nei	6	7303	5.4 %	Declining
Northern red snapper	7	6656	4.9 %	Stable (+)
Yellowtail snapper	8	4861	3.6 %	Rising
Demersal percomorphs nei	9	4848	3.6 %	Declining
Whitemouth croaker	10	4722	3.5 %	Rising
Lane snapper	11	3501	2.6 %	Declining
Spotted weakfish	12	3130	2.3 %	Stable (-)
Common snook	13	2391	1.8 %	Stable (-)
Croakers, drums nei	14	2026	1.5 %	Stable (+)
Spot croaker	15	2008	1.5 %	Declining
Porgies	16	1756	1.3 %	Declining
Sheepshead	17	1754	1.3 %	Rising
Squeteague(=Gray weakfish)	18	1736	1.3 %	Stable (+)
Groupers, seabasses nei	19	1392	1.0 %	Rising
Southern red snapper	20	1326	1.0 %	Stable (-)
Red grouper	21	1164	0.9 %	Declining
Atlantic croaker	22	1025	0.8 %	Declining
Porgies, seabreams, nei	23	885	0.7 %	Rising
Snooks(=Robalos)nei	24	858	0.6 %	Declining
Black seabass	25	719	0.5 %	Declining
Triggerfishes, durgons	26	695	0.5 %	Stable (+)
Gulf kingcroaker	27	652	0.5 %	Declining
Tilefish	28	646	0.5 %	Rising
Wrasses, hogfishes, etc	29	550	0.4 %	Rising
Surmullets(=Red mullets)	30	550	0.4 %	Rising
Percoids nei	31	280	0.2 %	Rising
Snappers nei	32	254	0.2 %	Rising
Black drum	33	228	0.2 %	Declining
Nassau grouper	34	201	0.2 %	Declining
TOTAL REDFISHES, BASSES, ETC.		136428	100.0 %	Stable (-)

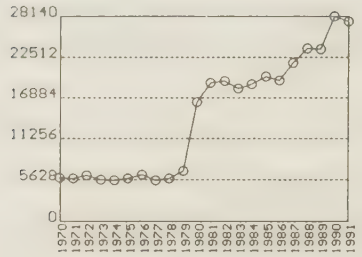
Proportion coming from declining catches.....	23.3 %
from stable catches.....	22.6 %
from rising catches.....	54.1 %

Major fishing countries ranked by 1990 production: Venezuela:38.29%, Mexico:32.39%, USA:14.52%, Cuba:6.99%, Dominican Rp:3.45%, Colombia:2.34%, Puerto Rico:0.97%, Bahamas:0.57%, Trinidad Tob:0.32%, Bermuda:0.07%, Grenada:0.06%, Barbados:0.04%.

Table 4.4.2

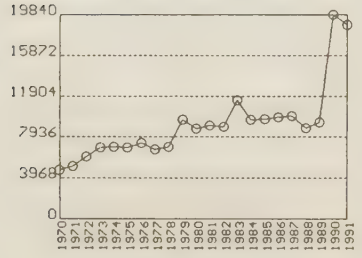
ATLANTIC, WESTERN CENTRAL
Ranking order and proportions of redfishes, basses, congers, etc., (ISSCAAP GROUP 33), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Groupers nei	1	16248	1 12.4%	5900	6 5.4%
Snappers, jobfishes, nei	2	8735	5 6.7%	4700	7 4.3%
Weakfishes nei	3	13086	3 10.0%	7600	4 7.0%
Ponyfishes(=Slipmouths)nei	4	14308	2 10.9%	3900	9 3.6%
Grunts, sweetlips, nei	5	6921	8 5.3%	16400	2 15.0%
Sea catfishes nei	6	6448	9 4.9%	8200	3 7.5%
Northern red snapper	7	3754	11 2.9%	6400	5 5.9%
Yellowtail snapper	8	2992	15 2.3%	1600	18 1.5%
Demersal percomorphs nei	9	7438	7 5.7%	4400	8 4.0%
Whitemouth croaker	10	3317	13 2.5%	1200	22 1.1%
Lane snapper	11	1903	18 1.5%	3200	12 2.9%
Spotted weakfish	12	3588	12 2.7%	2900	13 2.7%
Common snook	13	3210	14 2.5%	3800	10 3.5%
Croakers, drums nei	14	414	28 0.3%	1800	15 1.7%
Spot croaker	15	2977	16 2.3%	1500	19 1.4%
Porgies	16	1139	19 0.9%	900	24 0.8%
Sheepshead	17	552	24 0.4%	500	29 0.5%
Squeteague(=Gray weakfish)	18	4682	10 3.6%	1200	23 1.1%
Groupers, seabasses nei	19	1042	21 0.8%	700	27 0.6%
Southern red snapper	20	1128	20 0.9%	1700	17 1.6%
Red grouper	21	12067	4 9.2%	17300	1 15.8%
Atlantic croaker	22	7627	6 5.8%	3700	11 3.4%
Porgies, seabreams, nei	23	602	23 0.5%	300	30 0.3%
Snooks(=Robalos)nei	24	2922	17 2.2%	1300	21 1.2%
Black seabass	25	540	26 0.4%	900	25 0.8%
Triggerfishes, durgons	26	489	27 0.4%	500	28 0.5%
Gulf kingcroaker	27	306	30 0.2%	1800	16 1.7%
Tilefish	28	184	34 0.1%	0	37 0.0%
Wrasses, hogfishes, etc	29	248	31 0.2%	100	34 0.1%
Surmullets(=Red mullets)	30	196	32 0.2%	100	33 0.1%
Percoids nei	31	188	33 0.1%	100	32 0.1%
Snappers nei	32	376	29 0.3%	200	31 0.2%
Black drum	33	547	25 0.4%	1800	14 1.7%
Nassau grouper	34	660	22 0.5%	900	26 0.8%
TOTALS		131107	100.0%	109200	100.0%



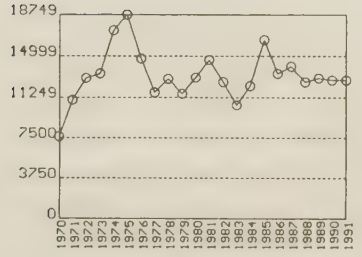
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Groupers nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 29.25 %
Rank..... 1 of 12 based on:1990
Percent to total..... 20.63 % , Cumulative: 20.63 %



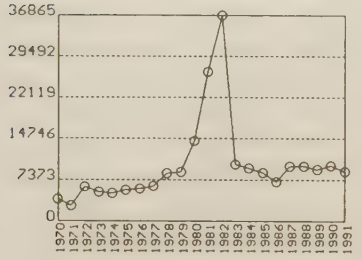
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Snappers, jobfishes, nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 17.25 %
Rank..... 2 of 12 based on:1990
Percent to total..... 14.54 % , Cumulative: 35.17 %



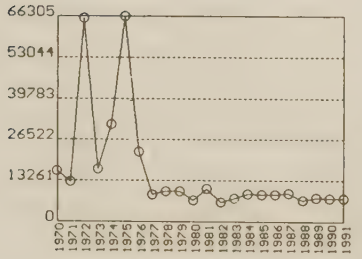
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Weakfishes nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 0.67 %
Rank..... 3 of 12 based on:1990
Percent to total..... 9.41 % , Cumulative: 44.58 %



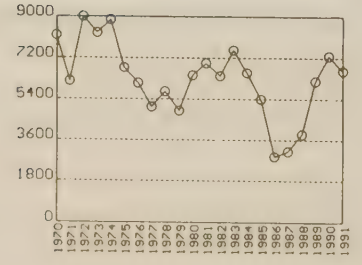
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Ponyfishes(=Slipmouths)nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 11.80 %
Rank..... 4 of 12 based on:1990
Percent to total..... 7.26 % , Cumulative: 51.84 %



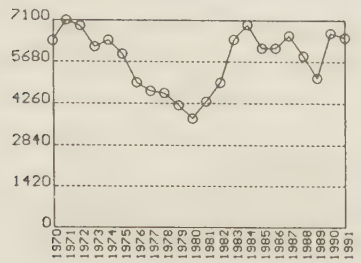
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Grunts, sweetlips, nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend.....-30.42 %
Rank..... 5 of 12 based on:1990
Percent to total..... 5.55 % , Cumulative: 57.40 %



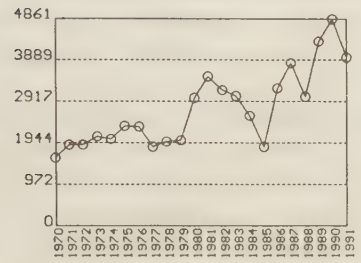
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sea catfishes nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... -7.09 %
Rank..... 6 of 12 based on:1990
Percent to total..... 5.35 % , Cumulative: 62.75 %



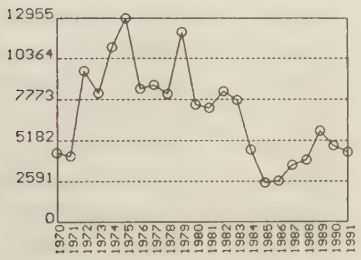
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Northern red snapper
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 0.04 %
Rank..... 7 of 12 based on:1990
Percent to total..... 4.88 % , Cumulative: 67.63 %



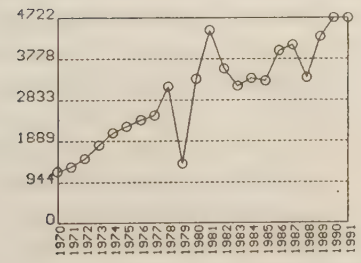
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Yellowtail snapper
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 14.69 %
Rank..... 8 of 12 based on:1990
Percent to total..... 3.56 % , Cumulative: 71.19 %



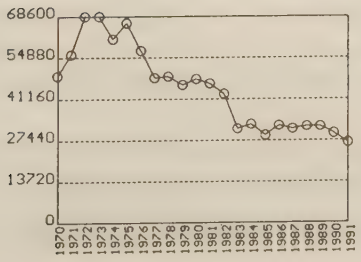
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Demersal percomorphs nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 12 %
Trend.....-12.12 %
Rank..... 9 of 12 based on:1990
Percent to total..... 3.55 % , Cumulative: 74.74 %



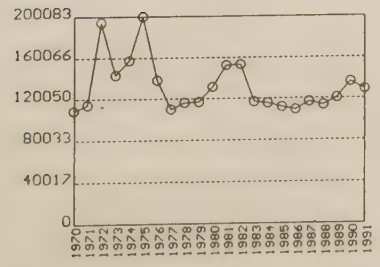
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Whitemouth croaker
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 18.31 %
Rank..... 10 of 12 based on:1990
Percent to total..... 3.46 % , Cumulative: 78.21 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER REDFISHES, BASSES, ETC.
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 5 %
Trend.....-14.76 %
Rank..... 11 of 12 based on:1990
Percent to total..... 21.80 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL REDFISHES, BASSES, ETC.
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... -3.66 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

4.5 Production of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34).

Table 4.5.1

ATLANTIC, WESTERN CENTRAL
Jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Mullets nei	1	15984	24.6 %	Stable (-)
Flathead grey mullet	2	15716	24.2 %	Rising
Jacks, crevalles, nei	3	9197	14.2 %	Rising
Bigeye scad	4	2820	4.4 %	Stable (-)
Common dolphinfish	5	2808	4.3 %	Rising
Brazilian mullet	6	2741	4.2 %	Rising
Bluefish	7	2423	3.7 %	Stable (-)
Atlantic moonfish	8	2346	3.6 %	Stable (-)
Barracudas	9	1861	2.9 %	Rising
Flyingfishes nei	10	1679	2.6 %	Rising
Amberjacks nei	11	1543	2.4 %	Rising
Blue runner	12	1139	1.8 %	Rising
Pelagic percomorphs nei	13	1004	1.6 %	Stable (-)
Bobo mullet	14	933	1.4 %	Rising
Pompanos	15	900	1.4 %	Rising
Cobia	16	790	1.2 %	Rising
Atlantic butterfish	17	567	0.9 %	Sharp rise
Carangids nei	18	231	0.4 %	Stable (-)
Gulf butterfish, harvestfishes	19	184	0.3 %	Rising
Rainbow runner	20	14	0.0 %	Sharp rise
Halfbeaks nei	21	6	0.0 %	Rising
North Atlantic harvestfish	22	0	0.0 %	Stable (-)
Common(=Florida)pompano	23	0	0.0 %	Sharp decl
TOTAL JACKS, MULLETS, ETC.		64886	100.0 %	Rising

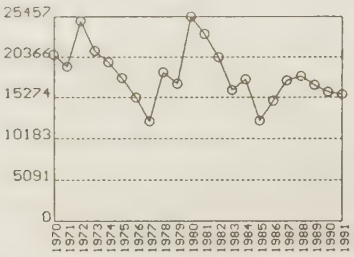
Proportion coming from declining catches.....	0.0 %
from stable catches.....	38.2 %
from rising catches.....	61.8 %

Major fishing countries ranked by 1990 production: Venezuela:37.93%, USA:27.28%, Mexico:24.37%, Barbados:3.99%, Dominican Rp:2.36%, Guadeloupe:1.08%, Cuba:0.92%, Colombia:0.57%, Trinidad Tob:0.48%, Grenada:0.34%, Martinique:0.29%, Bahamas:0.24%, Puerto Rico:0.16%.

Table 4.5.2

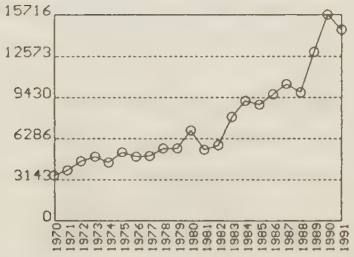
ATLANTIC, WESTERN CENTRAL
Ranking order and proportions of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Mullets nei	1	25457	1 47.9%	20700	1 47.4%
Flathead grey mullet	2	6934	2 13.0%	3500	3 8.0%
Jacks, crevalles, nei	3	4906	3 9.2%	5200	2 11.9%
Bigeye scad	4	1498	8 2.8%	1900	5 4.4%
Common dolphinfish	5	1943	6 3.7%	1700	6 3.9%
Brazilian mullet	6	2062	5 3.9%	1100	10 2.5%
Bluefish	7	2943	4 5.5%	2100	4 4.8%
Atlantic moonfish	8	1500	7 2.8%	1400	8 3.2%
Barracudas	9	906	12 1.7%	600	13 1.4%
Flyingfishes nei	10	1081	11 2.0%	1600	7 3.7%
Amberjacks nei	11	307	14 0.6%	300	15 0.7%
Blue runner	12	1192	10 2.2%	700	11 1.6%
Pelagic percomorphs nei	13	1383	9 2.6%	600	12 1.4%
Bobo mullet	14	75	18 0.1%	1400	9 3.2%
Pompanos	15	505	13 1.0%	200	16 0.5%
Cobia	16	190	15 0.4%	0	21 0.0%
Atlantic butterfish	17	18	20 0.0%	0	20 0.0%
Carangids nei	18	69	19 0.1%	100	18 0.2%
Gulf butterfish, harvestfishes	19	83	17 0.2%	100	17 0.2%
Rainbow runner	20	0	23 0.0%	0	23 0.0%
Halfbeaks nei	21	3	22 0.0%	0	22 0.0%
North Atlantic harvestfish	22	112	16 0.2%	0	19 0.0%
Common(=Florida)pompano	23	4	21 0.0%	500	14 1.1%
TOTALS		53171	100.0%	43700	100.0%



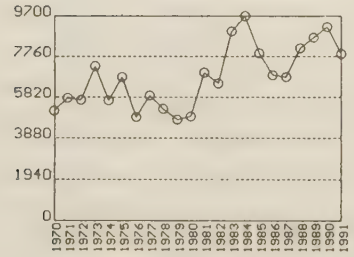
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mullets nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -4.40 %
Rank..... 1 of 12 based on:1990
Percent to total..... 24.63 % , Cumulative: 24.63 %



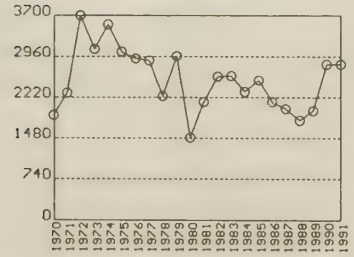
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Flathead grey mullet
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 23.07 %
Rank..... 2 of 12 based on:1990
Percent to total..... 24.22 % , Cumulative: 48.85 %



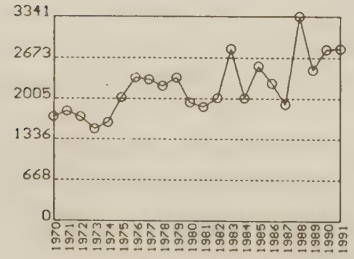
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Jacks, crevalles, nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 8.09 %
Rank..... 3 of 12 based on:1990
Percent to total..... 14.17 % , Cumulative: 63.03 %



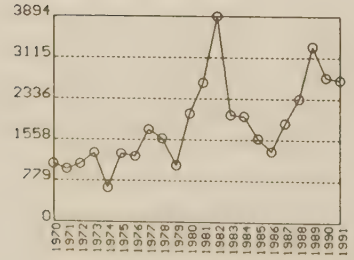
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bigeye scad
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... -4.33 %
Rank..... 4 of 12 based on:1990
Percent to total..... 4.35 % , Cumulative: 67.38 %



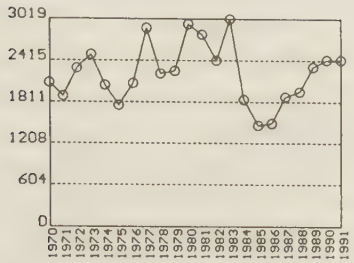
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common dolphinfish
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 8.21 %
Rank..... 5 of 12 based on:1990
Percent to total..... 4.33 % , Cumulative: 71.70 %



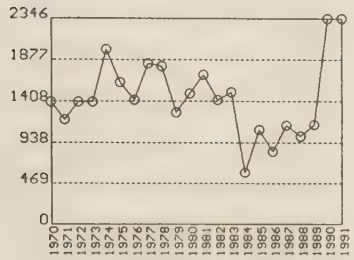
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Brazilian mullet
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 16.34 %
Rank..... 6 of 12 based on:1990
Percent to total..... 4.22 % , Cumulative: 75.93 %



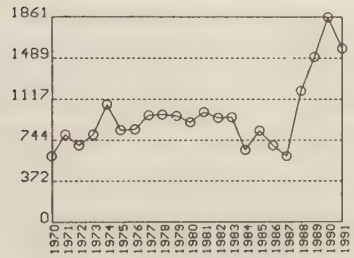
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bluefish
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... -0.42 %
Rank..... 7 of 12 based on:1990
Percent to total..... 3.73 % , Cumulative: 79.66 %



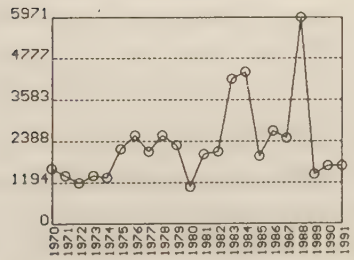
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic moonfish
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... -0.11 %
Rank..... 8 of 12 based on:1990
Percent to total..... 3.62 % , Cumulative: 83.28 %



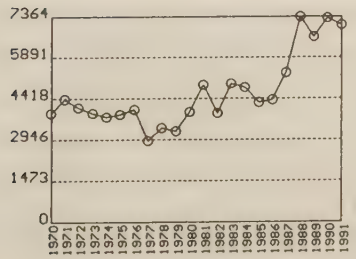
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Barracudas
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 10.23 %
Rank..... 9 of 12 based on:1990
Percent to total..... 2.87 % , Cumulative: 86.14 %



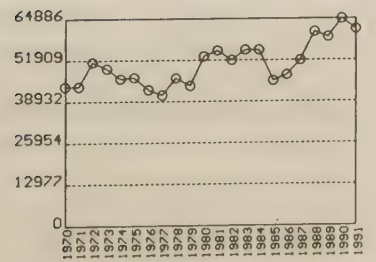
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Flyingfishes nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 10.32 %
Rank..... 10 of 12 based on:1990
Percent to total..... 2.59 % , Cumulative: 88.73 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER JACKS, MULLETS, ETC.
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 11.44 %
Rank..... 11 of 12 based on:1990
Percent to total..... 11.28 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL JACKS, MULLETS, ETC.
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 5.35 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

4.6 Production of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35).

Table 4.6.1

ATLANTIC, WESTERN CENTRAL
Herrings, sardines, etc. (ISSCAAP GROUP 35), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Gulf menhaden	1	519583	83.5 %	Stable (+)
Round sardinella	2	59352	9.5 %	Rising
Atlantic menhaden	3	33735	5.4 %	Declining
Atlantic thread herring	4	7562	1.2 %	Declining
Scaled sardines	5	732	0.1 %	Declining
Clupeoids nei	6	691	0.1 %	Declining
Tarpon	7	289	0.1 %	Declining
Atlantic anchoveta	8	23	0.0 %	Declining
Ladyfish	9	21	0.0 %	Declining
Anchovies nei	10	20	0.0 %	Sharp decl
TOTAL HERRINGS, SARDINES, ETC.		622008	100.0 %	Stable (+)

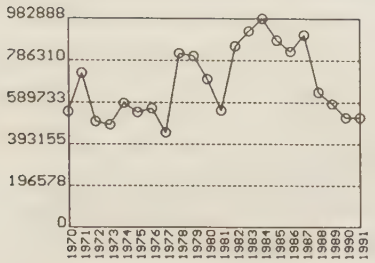
Proportion coming from declining catches.....	6.9 %
from stable catches.....	83.5 %
from rising catches.....	9.5 %

Major fishing countries ranked by 1990 production: USA:89.82%, Venezuela:9.22%, Cuba:0.49%, Mexico:0.16%, Dominican Rp:0.14%, USSR:0.09%, Colombia:0.03%, Trinidad Tob:0.03%, Grenada:0.02%.

Table 4.6.2

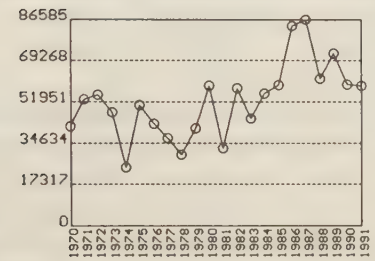
ATLANTIC, WESTERN CENTRAL
Ranking order and proportions of herrings, sardines, etc., in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Gulf menhaden	1	702073	1 80.4%	548600	1 81.9%
Round sardinella	2	58732	3 6.7%	41600	3 6.2%
Atlantic menhaden	3	98774	2 11.3%	61800	2 9.2%
Atlantic thread herring	4	6098	4 0.7%	9700	4 1.5%
Scaled sardines	5	760	7 0.1%	2200	6 0.3%
Clupeoids nei	6	344	8 0.0%	700	7 0.1%
Tarpon	7	950	6 0.1%	600	8 0.1%
Atlantic anchoveta	8	5005	5 0.6%	3900	5 0.6%
Ladyfish	9	37	9 0.0%	400	10 0.1%
Anchovies nei	10	20	10 0.0%	500	9 0.1%
TOTALS		872793	100.0%	670000	100.0%



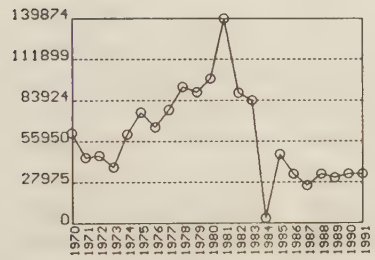
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Gulf menhaden
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 3.93 %
Rank..... 1 of 6 based on:1990
Percent to total..... 83.53 % , Cumulative: 83.53 %



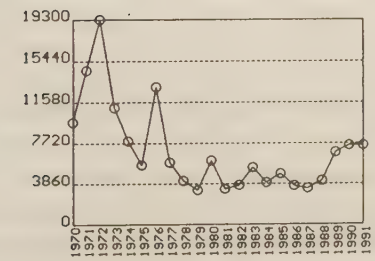
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Round sardinella
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 9.53 %
Rank..... 2 of 6 based on:1990
Percent to total..... 9.54 % , Cumulative: 93.08 %



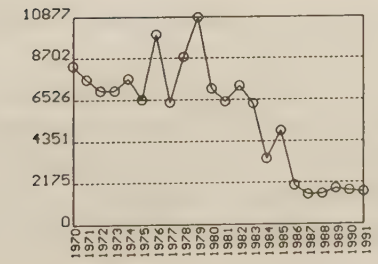
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic menhaden
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... -9.09 %
Rank..... 3 of 6 based on:1990
Percent to total..... 5.42 % , Cumulative: 98.50 %



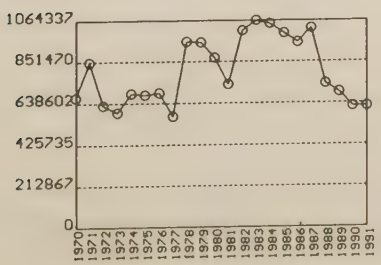
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic thread herring
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-18.37 %
Rank..... 4 of 6 based on:1990
Percent to total..... 1.22 % , Cumulative: 99.71 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-21.90 %
Rank..... 5 of 6 based on:1990
Percent to total..... 0.28 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 2.95 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

4.7 Production of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36).

Table 4.7.1

ATLANTIC, WESTERN CENTRAL
Tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic Spanish mackerel	1	16001	24.9 %	Stable (+)
Yellowfin tuna	2	15716	24.4 %	Rising
Albacore	3	5506	8.6 %	Declining
King mackerel	4	5335	8.3 %	Stable (-)
Skipjack tuna	5	4689	7.3 %	Rising
Swordfish	6	3955	6.2 %	Rising
Blackfin tuna	7	3387	5.3 %	Rising
Atlantic bonito	8	2370	3.7 %	Rising
Frigate and bullet tunas	9	1969	3.1 %	Rising
Atlantic black skipjack	10	1444	2.3 %	Rising
Bigeye tuna	11	1212	1.9 %	Stable (+)
Wahoo	12	669	1.0 %	Rising
Tuna-like fishes nei	13	520	0.8 %	Stable (-)
Seerfishes nei	14	343	0.5 %	Stable (-)
Atlantic sailfish	15	257	0.4 %	Declining
Northern bluefin tuna	16	242	0.4 %	Declining
Cero	17	225	0.4 %	Declining
Atlantic blue marlin	18	172	0.3 %	Declining
Tunas nei	19	158	0.3 %	Rising
Marlins,sailfishes,spearfishes	20	119	0.2 %	Declining
Atlantic white marlin	21	23	0.0 %	Declining
TOTAL TUNAS, BONITOS, ETC.		64312	100.0 %	Rising

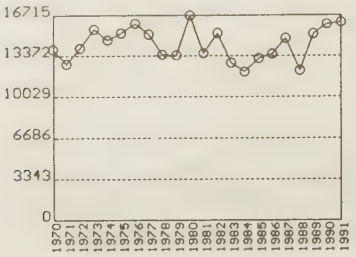
Proportion coming from declining catches.....	10.2 %
from stable catches.....	36.4 %
from rising catches.....	53.4 %

Major fishing countries ranked by 1990 production: Venezuela:36.77%, Mexico:17.44%, USA:15.26%, Other nei A:4.60%, Cuba:4.46%, Panama:4.08%, Dominican Rp:3.28%, Spain:2.76%, Japan:2.59%, Trinidad Tob:2.01%, Martinique:1.55%, Neth Antiles:0.96%, Grenada:0.79%, Guadeloupe:0.73%, Colombia:0.69%, Korea Rep:0.60%, Barbados:0.39%, Puerto Rico:0.32%, Saint Lucia:0.28%, Aruba:0.23%, Bermuda:0.20%.

Table 4.7.2

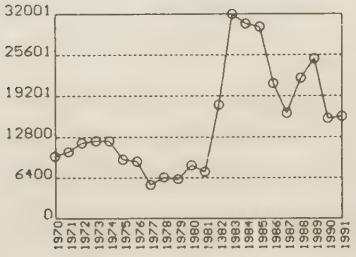
ATLANTIC, WESTERN CENTRAL
Ranking order and proportions of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic Spanish mackerel	1	16715	1 28.7%	13878	1 30.1%
Yellowfin tuna	2	8373	2 14.4%	9866	2 21.4%
Albacore	3	4474	5 7.7%	5886	3 12.8%
King mackerel	4	6281	3 10.8%	5007	4 10.9%
Skipjack tuna	5	5613	4 9.6%	1673	7 3.6%
Swordfish	6	2537	7 4.4%	505	13 1.1%
Blackfin tuna	7	1169	11 2.0%	1900	5 4.1%
Atlantic bonito	8	1795	9 3.1%	700	9 1.5%
Frigate and bullet tunas	9	1176	10 2.0%	700	8 1.5%
Atlantic black skipjack	10	754	13 1.3%	200	20 0.4%
Bigeye tuna	11	2357	8 4.1%	1778	6 3.9%
Wahoo	12	458	19 0.8%	378	17 0.8%
Tuna-like fishes nei	13	797	12 1.4%	411	15 0.9%
Seerfishes nei	14	465	18 0.8%	600	11 1.3%
Atlantic sailfish	15	364	20 0.6%	680	10 1.5%
Northern bluefin tuna	16	2703	6 4.6%	302	18 0.7%
Cero	17	604	14 1.0%	500	14 1.1%
Atlantic blue marlin	18	517	15 0.9%	593	12 1.3%
Tunas nei	19	499	16 0.9%	0	21 0.0%
Marlins,sailfishes,spearfishes	20	73	21 0.1%	200	19 0.4%
Atlantic white marlin	21	477	17 0.8%	397	16 0.9%
TOTALS		58201	100.0%	46154	100.0%



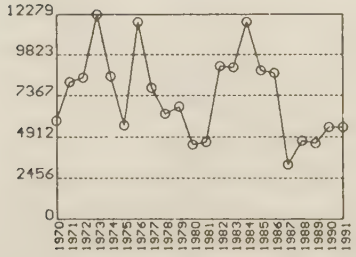
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic Spanish mackerel
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 21 %
Trend..... 0.20 %
Rank..... 1 of 12 based on:1990
Percent to total..... 24.88 % , Cumulative: 24.88 %



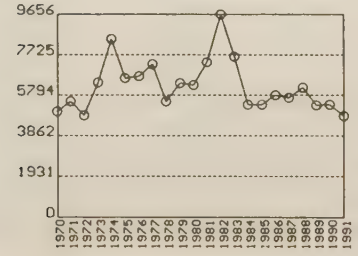
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Yellowfin tuna
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 16.97 %
Rank..... 2 of 12 based on:1990
Percent to total..... 24.44 % , Cumulative: 49.32 %



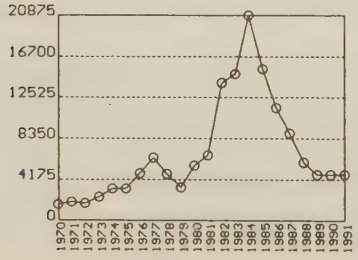
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Albacore
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 16 %
Trend..... -6.75 %
Rank..... 3 of 12 based on:1990
Percent to total..... 8.56 % , Cumulative: 57.88 %



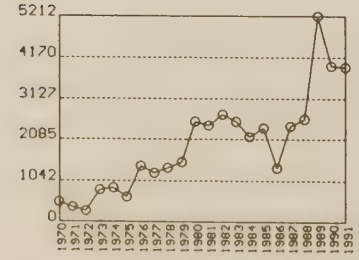
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....King mackerel
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -1.63 %
Rank..... 4 of 12 based on:1990
Percent to total..... 8.30 % , Cumulative: 66.17 %



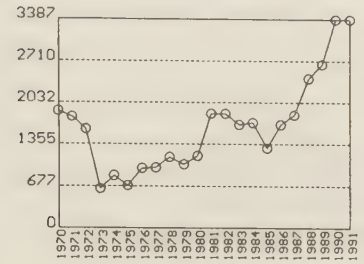
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Skipjack tuna
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 19.05 %
Rank..... 5 of 12 based on:1990
Percent to total..... 7.29 % , Cumulative: 73.47 %



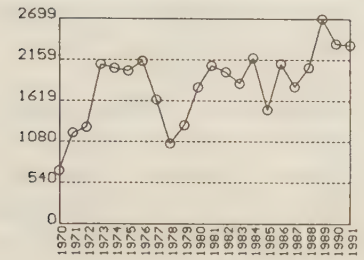
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Swordfish
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 30.44 %
Rank..... 6 of 12 based on:1990
Percent to total..... 6.15 % , Cumulative: 79.62 %



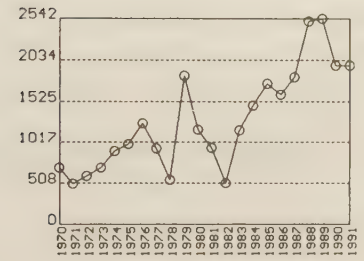
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blackfin tuna
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 17.09 %
Rank..... 7 of 12 based on:1990
Percent to total..... 5.27 % , Cumulative: 84.88 %



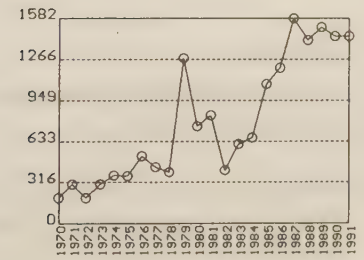
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic bonito
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 8.93 %
Rank..... 8 of 12 based on:1990
Percent to total..... 3.69 % , Cumulative: 88.57 %



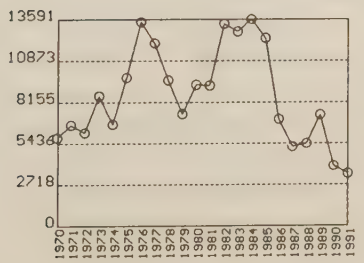
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Frigate and bullet tunas
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 21.51 %
Rank..... 9 of 12 based on:1990
Percent to total..... 3.06 % , Cumulative: 91.63 %



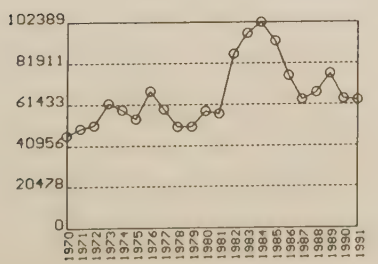
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic black skipjack
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 29.35 %
Rank..... 10 of 12 based on:1990
Percent to total..... 2.25 % , Cumulative: 93.87 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER TUNAS, BONITOS, ETC.
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... -3.28 %
Rank..... 11 of 12 based on:1990
Percent to total..... 6.14 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL TUNAS, BONITOS, ETC.
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 6.95 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

4.8 Production of mackerels, snoeks, cutlassfishes, etc. (ISSCAAP GROUP 37).

Table 4.8.1

ATLANTIC, WESTERN CENTRAL
Mackerels, snoeks, cutlassfishes, etc.,
(ISSCAAP GROUP 37), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Largehead hairtail	1	4663	65.2 %	Rising
Mackerel-like fishes nei	2	1390	19.4 %	Rising
Chub mackerel	3	1102	15.4 %	Rising
TOTAL MACKERELS, SNOEKS, ETC.		7155	100.0 %	Rising

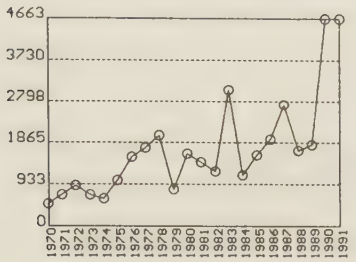
Proportion coming from declining catches.....	0.0 %
from stable catches.....	0.0 %
from rising catches.....	100.0 %

Major fishing countries ranked by 1990 production: Venezuela:80.43%, Guadeloupe:19.43%, Mexico:0.14%.

Table 4.8.2

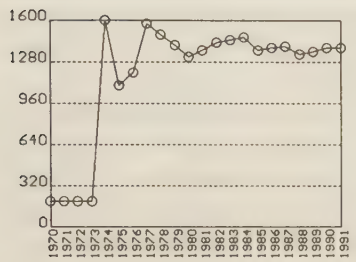
ATLANTIC, WESTERN CENTRAL
Ranking order and proportions of mackerels, snoeks, cutlassfishes, etc.,
(ISSCAAP GROUP 37), in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Largehead hairtail	1	1614	1 53.0%	500	1 50.0%
Mackerel-like fishes nei	2	1320	2 43.3%	200	3 20.0%
Chub mackerel	3	113	3 3.7%	300	2 30.0%
TOTALS		3047	100.0%	1000	100.0%



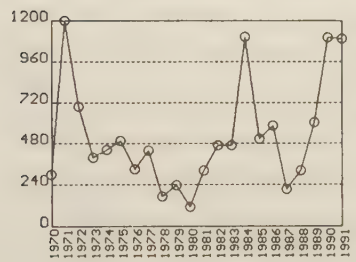
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Largehead hairtail
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 26.60 %
Rank..... 1 of 4 based on:1990
Percent to total..... 65.17 % , Cumulative: 65.17 %



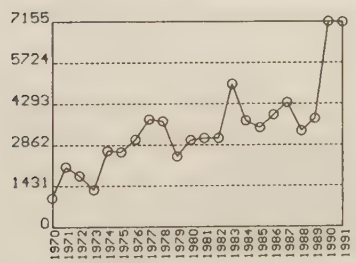
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mackerel-like fishes nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 14.41 %
Rank..... 2 of 4 based on:1990
Percent to total..... 19.43 % , Cumulative: 84.60 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Chub mackerel
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 16 %
Trend..... 6.99 %
Rank..... 3 of 4 based on:1990
Percent to total..... 15.40 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MACKERELS, SNOEKS, ETC.
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 19.42 %
Rank..... 4 of 4 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

4.9 Production of sharks, rays, chimaeras, etc. (ISSCAAP GROUP 38).

Table 4.9.1

ATLANTIC, WESTERN CENTRAL
Sharks, rays, etc. (ISSCAAP GROUP 38),
ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Sharks, rays, skates, etc	1	14843	51.0 %	Rising
Requiem sharks	2	11619	39.9 %	Rising
Skates and rays, nei	3	2590	8.9 %	Rising
Smoothhounds	4	36	0.1 %	Stable (-)
TOTAL SHARKS, RAYS, ETC.		29088	100.0 %	Rising

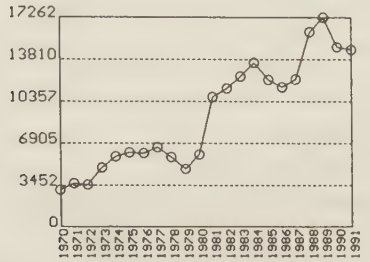
Proportion coming from declining catches.....	0.0 %
from stable catches.....	0.1 %
from rising catches.....	99.9 %

Major fishing countries ranked by 1990 production: Mexico:48.85%, Venezuela:23.25%, USA:19.21%, Cuba:6.48%, Trinidad Tob:0.83%, Japan:0.28%, Dominican Rp:0.28%, Martinique:0.21%, Other nei A:0.14%, Colombia:0.12%, Korea Rep:0.12%, Costa Rica:0.10%, Barbados:0.06%, Bermuda:0.04%, Grenada:0.03%.

Table 4.9.2

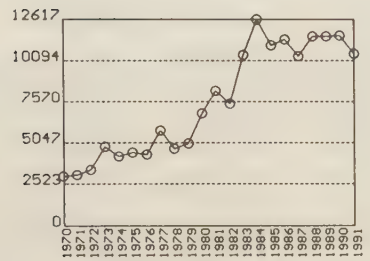
ATLANTIC, WESTERN CENTRAL
Ranking order and proportions of sharks,rays,etc.,
(ISSCAAP GROUP 38), in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Sharks, rays, skates, etc	1	6002	2 43.0%	3100	1 47.7%
Requiem sharks	2	6859	1 49.1%	3000	2 46.2%
Skates and rays, nei	3	1070	3 7.7%	400	3 6.2%
Smoothhounds	4	40	4 0.3%	0	4 0.0%
TOTALS		13971	100.0%	6500	100.0%



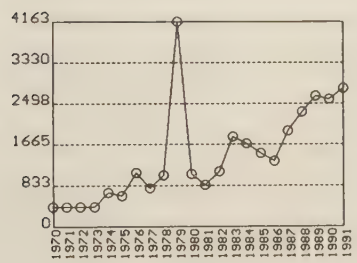
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sharks, rays, skates, etc
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... 24.83 %
Rank..... 1 of 5 based on:1990
Percent to total..... 51.03 % , Cumulative: 51.03 %



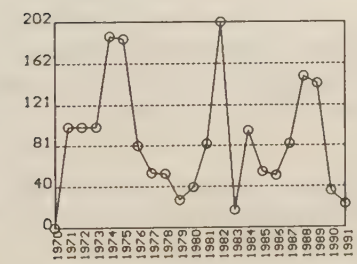
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Requiem sharks
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 22.54 %
Rank..... 2 of 5 based on:1990
Percent to total..... 39.94 % , Cumulative: 90.97 %



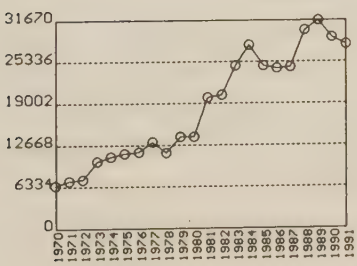
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Skates and rays, nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 25.78 %
Rank..... 3 of 5 based on:1990
Percent to total..... 8.90 % , Cumulative: 99.88 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Smoothhounds
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... -3.85 %
Rank..... 4 of 5 based on:1990
Percent to total..... 0.12 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL SHARKS, RAYS, ETC.
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 23.83 %
Rank..... 5 of 5 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

4.10 Production of crustaceans (ISSCAAP GROUPS 41-47).

Table 4.10.1

ATLANTIC, WESTERN CENTRAL
Crustaceans (ISSCAAP GROUPS 41-47), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Northern brown shrimp	1	78667	31.3 %	Stable (+)
Penaeus shrimps nei	2	49298	19.6 %	Stable (-)
Blue crab	3	41525	16.5 %	Rising
Northern white shrimp	4	34104	13.6 %	Stable (+)
Caribbean spiny lobster	5	21994	8.8 %	Rising
Northern pink shrimp	6	8432	3.4 %	Declining
Atlantic seabob	7	5030	2.0 %	Rising
Rock shrimp	8	3681	1.5 %	Rising
Swimcrabs	9	2875	1.2 %	Sharp rise
Black stone crab	10	2707	1.1 %	Rising
Marine crabs nei	11	1369	0.6 %	Rising
Marine crustaceans nei	12	803	0.3 %	Stable (+)
Natantian decapods nei	13	301	0.1 %	Sharp rise
Royal red shrimp	14	135	0.1 %	Declining
Whiteleg shrimp	15	102	0.0 %	Sharp rise
Tropical spiny lobsters nei	16	1	0.0 %	Rising
Redspotted shrimp	17	0	0.0 %	Sharp rise
Artemia salina	18	0	0.0 %	Sharp rise
TOTAL CRUSTACEANS		251024	100.0 %	Stable (+)

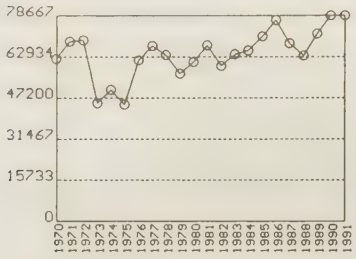
Proportion coming from declining catches.....	3.4 %
from stable catches.....	64.9 %
from rising catches.....	31.7 %

Major fishing countries ranked by 1990 production: USA:65.21%, Mexico:12.73%, Venezuela:4.87%, Cuba:4.71%, Colombia:2.65%, Bahamas:2.31%, Guyana:1.55%, Fr Guiana:1.47%, Honduras:1.10%, Korea Rep:0.52%, Nicaragua:0.44%, Japan:0.43%, Dominican Rp:0.38%, Belize:0.36%, Suriname:0.33%, Trinidad Tob:0.17%, USSR:0.12%, Turks Caicos:0.08%, Haiti:0.08%, Antigua Barb:0.08%, St Kitts Nev:0.08%, Virgin Is Br:0.07%, Puerto Rico:0.06%, Guadeloupe:0.06%, Martinique:0.04%, Jamaica:0.04%, Costa Rica:0.04%, Virgin Is US:0.02%, Grenada:0.01%.

Table 4.10.2

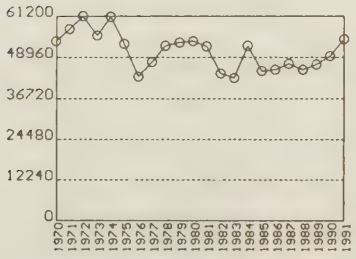
ATLANTIC, WESTERN CENTRAL
Ranking order and proportions of crustaceans (ISSCAAP GROUPS 41-47), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Northern brown shrimp	1	60928	1 25.0%	62300	1 28.0%
Penaeus shrimps nei	2	53796	2 22.0%	53800	2 24.2%
Blue crab	3	41121	3 16.9%	29800	4 13.4%
Northern white shrimp	4	33784	4 13.8%	37300	3 16.8%
Caribbean spiny lobster	5	23008	5 9.4%	19700	5 8.9%
Northern pink shrimp	6	20136	6 8.3%	16100	6 7.2%
Atlantic seabob	7	3612	7 1.5%	1500	7 0.7%
Rock shrimp	8	1747	10 0.7%	0	18 0.0%
Swimcrabs	9	0	18 0.0%	0	17 0.0%
Black stone crab	10	2650	8 1.1%	1000	8 0.5%
Marine crabs nei	11	2435	9 1.0%	600	9 0.3%
Marine crustaceans nei	12	622	11 0.3%	500	10 0.2%
Natantian decapods nei	13	0	14 0.0%	0	13 0.0%
Royal red shrimp	14	233	12 0.1%	100	11 0.0%
Whiteleg shrimp	15	0	15 0.0%	0	14 0.0%
Tropical spiny lobsters nei	16	10	13 0.0%	0	12 0.0%
Redspotted shrimp	17	0	16 0.0%	0	15 0.0%
Artemia salina	18	0	17 0.0%	0	16 0.0%
TOTALS		244082	100.0%	222700	100.0%



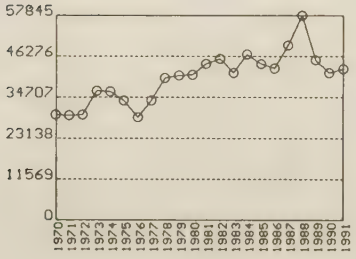
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Northern brown shrimp
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... 4.67 %
Rank..... 1 of 12 based on:1990
Percent to total..... 31.34 % , Cumulative: 31.34 %



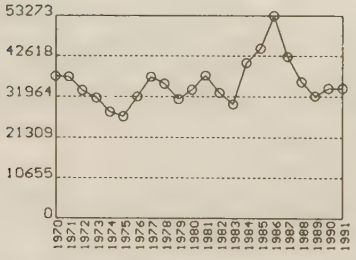
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Penaeus shrimps nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... -3.24 %
Rank..... 2 of 12 based on:1990
Percent to total..... 19.64 % , Cumulative: 50.98 %



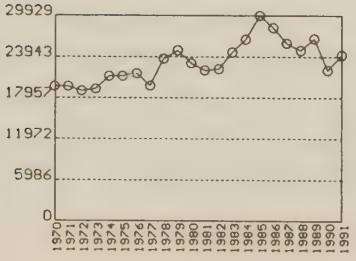
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blue crab
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 7.85 %
Rank..... 3 of 12 based on:1990
Percent to total..... 16.54 % , Cumulative: 67.52 %



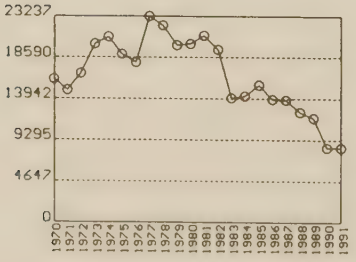
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Northern white shrimp
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 2.85 %
Rank..... 4 of 12 based on:1990
Percent to total..... 13.59 % , Cumulative: 81.11 %



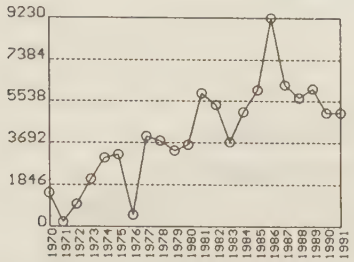
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Caribbean spiny lobster
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 5.18 %
Rank..... 5 of 12 based on:1990
Percent to total..... 8.76 % , Cumulative: 89.87 %



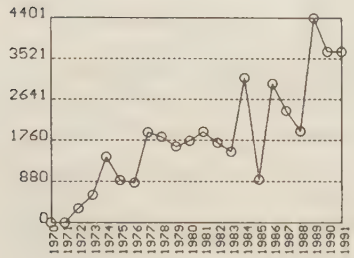
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Northern pink shrimp
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... -9.07 %
Rank..... 6 of 12 based on:1990
Percent to total..... 3.36 % , Cumulative: 93.23 %



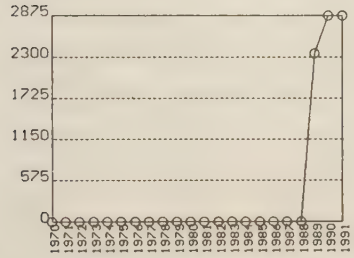
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic seabob
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 23.29 %
Rank..... 7 of 12 based on:1990
Percent to total..... 2.00 % , Cumulative: 95.23 %



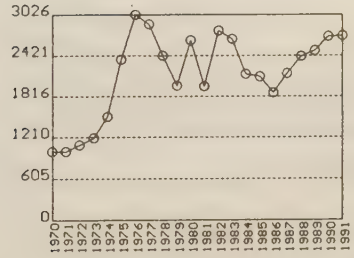
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Rock shrimp
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 30.93 %
Rank..... 8 of 12 based on:1990
Percent to total..... 1.47 % , Cumulative: 96.70 %



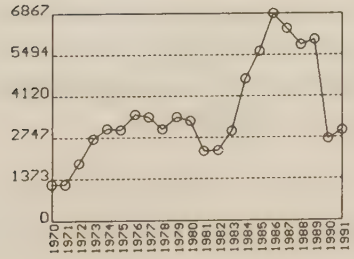
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Swimcrabs
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation.....
Trend..... 83.17 %
Rank..... 9 of 12 based on:1990
Percent to total..... 1.15 % , Cumulative: 97.84 %



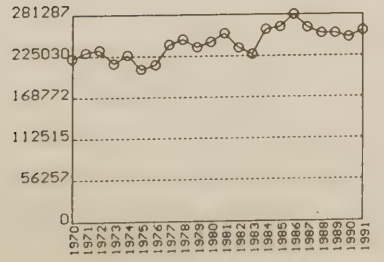
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Black stone crab
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 9.48 %
Rank..... 10 of 12 based on:1990
Percent to total..... 1.08 % , Cumulative: 98.92 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER CRUSTACEANS
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 16.18 %
Rank..... 11 of 12 based on:1990
Percent to total..... 1.08 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CRUSTACEANS
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 3.22 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

4.11 Production of molluscs (ISSCAAP GROUPS 51-58).

Table 4.11.1

ATLANTIC, WESTERN CENTRAL
Molluscs (ISSCAAP GROUPS 51-58), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
American cupped oyster	1	119690	56.7 %	Stable (-)
Ark clams	2	29642	14.1 %	Rising
Common octopus	3	15425	7.3 %	Rising
Calico scallop	4	11220	5.3 %	Rising
Clams nei	5	8901	4.2 %	Rising
Mangrove cupped oyster	6	6877	3.3 %	Rising
Marine molluscs nei	7	6788	3.2 %	Rising
Stromboid conchs	8	5685	2.7 %	Rising
Common squids	9	2604	1.2 %	Rising
Venus clams	10	1585	0.8 %	Rising
Octopuses	11	1133	0.5 %	Rising
Rock mussel	12	656	0.3 %	Rising
Bay scallop	13	517	0.3 %	Rising
Squids nei	14	116	0.1 %	Rising
Cupped oysters nei	15	102	0.1 %	Rising
Longfin squid	16	35	0.0 %	Rising
Gastropods nei	17	24	0.0 %	Sharp rise
Shortfin(Northern)squid	18	10	0.0 %	Sharp rise
Sea scallop	19	0	0.0 %	Rising
Cuttlefishes, bobtail squids	20	0	0.0 %	Rising
TOTAL MOLLUSCS		211010	100.0 %	Rising

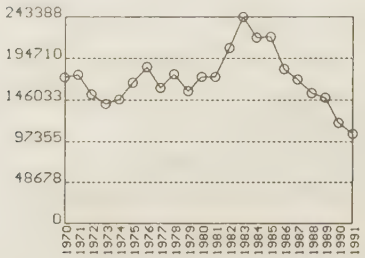
Proportion coming from declining catches.....	0.0 %
from stable catches.....	56.7 %
from rising catches.....	43.3 %

Major fishing countries ranked by 1990 production: USA:44.40%, Mexico:32.11%, Venezuela:17.98%, Dominican Rp:2.47%, Cuba:1.89%, Colombia:0.31%, Guadeloupe:0.25%, Turks Caicos:0.20%, Bahamas:0.16%, Belize:0.09%, Puerto Rico:0.06%, Honduras:0.06%, Grenada:0.01%, Virgin Is US:0.01%.

Table 4.11.2

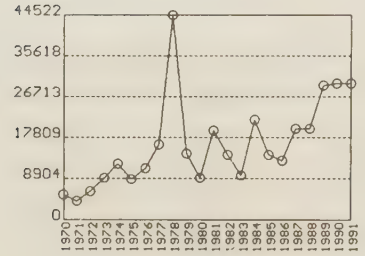
ATLANTIC, WESTERN CENTRAL
Ranking order and proportions of molluscs (ISSCAAP GROUPS 51-58), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
American cupped oyster	1	173478	1 81.2%	172900	1 84.1%
Ark clams	2	9015	2 4.2%	5400	4 2.6%
Common octopus	3	6488	4 3.0%	1500	7 0.7%
Calico scallop	4	0	18 0.0%	10400	2 5.1%
Clams nei	5	8728	3 4.1%	5800	3 2.8%
Mangrove cupped oyster	6	2029	7 1.0%	4100	5 2.0%
Marine molluscs nei	7	3248	6 1.5%	2900	6 1.4%
Stromboid conchs	8	4057	5 1.9%	1100	8 0.5%
Common squids	9	905	11 0.4%	500	9 0.2%
Venus clams	10	1998	8 0.9%	200	12 0.1%
Octopuses	11	457	13 0.2%	100	13 0.1%
Rock mussel	12	0	20 0.0%	200	11 0.1%
Bay scallop	13	1384	9 0.7%	0	14 0.0%
Squids nei	14	504	12 0.2%	0	20 0.0%
Cupped oysters nei	15	52	14 0.0%	0	15 0.0%
Longfin squid	16	26	15 0.0%	0	16 0.0%
Gastropods nei	17	3	17 0.0%	0	17 0.0%
Shortfin(Northern)squid	18	5	16 0.0%	0	19 0.0%
Sea scallop	19	1371	10 0.6%	500	10 0.2%
Cuttlefishes, bobtail squids	20	0	19 0.0%	0	18 0.0%
TOTALS		213748	100.0%	205600	100.0%



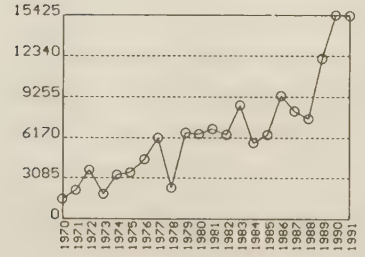
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....American cupped oyster
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... -0.73 %
Rank..... 1 of 12 based on:1990
Percent to total..... 56.72 % , Cumulative: 56.72 %



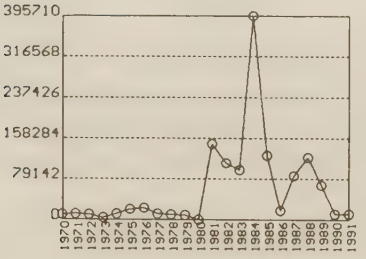
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Ark clams
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 19.15 %
Rank..... 2 of 12 based on:1990
Percent to total..... 14.05 % , Cumulative: 70.77 %



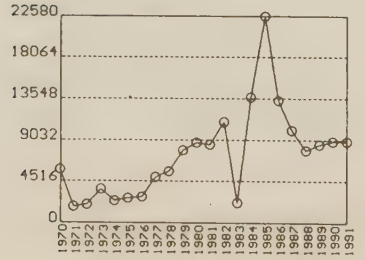
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common octopus
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 28.41 %
Rank..... 3 of 12 based on:1990
Percent to total..... 7.31 % , Cumulative: 78.08 %



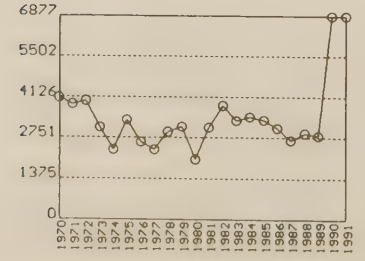
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Calico scallop
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 27.28 %
Rank..... 4 of 12 based on:1990
Percent to total..... 5.32 % , Cumulative: 83.40 %



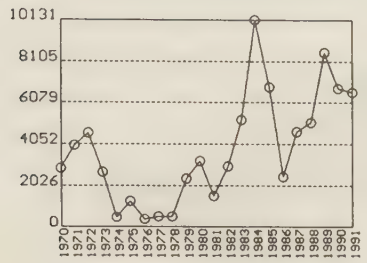
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Clams nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 21.76 %
Rank..... 5 of 12 based on:1990
Percent to total..... 4.22 % , Cumulative: 87.62 %



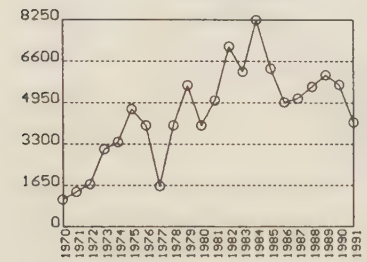
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mangrove cupped oyster
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 6.44 %
Rank..... 6 of 12 based on:1990
Percent to total..... 3.26 % , Cumulative: 90.87 %



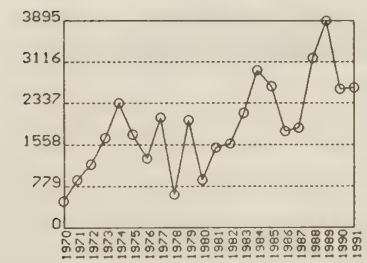
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marine molluscs nei
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 23.36 %
Rank..... 7 of 12 based on:1990
Percent to total..... 3.22 % , Cumulative: 94.09 %



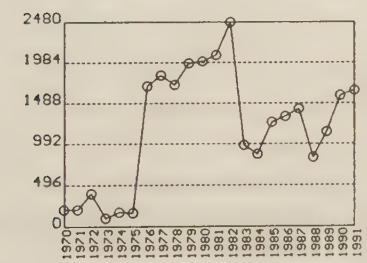
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Stromboid conchs
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 16.01 %
Rank..... 8 of 12 based on:1990
Percent to total..... 2.69 % , Cumulative: 96.79 %



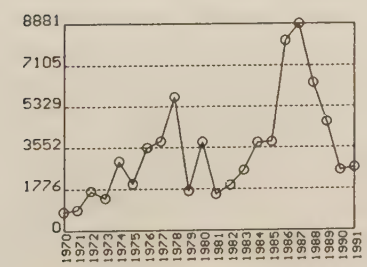
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common squids
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 17.02 %
Rank..... 9 of 12 based on:1990
Percent to total..... 1.23 % , Cumulative: 98.02 %



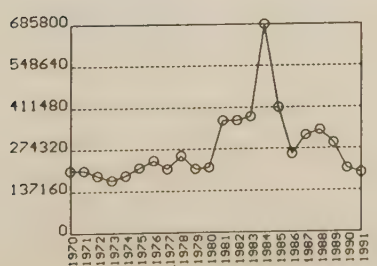
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Venus clams
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 16.09 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.75 % , Cumulative: 98.77 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER MOLLUSCS
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

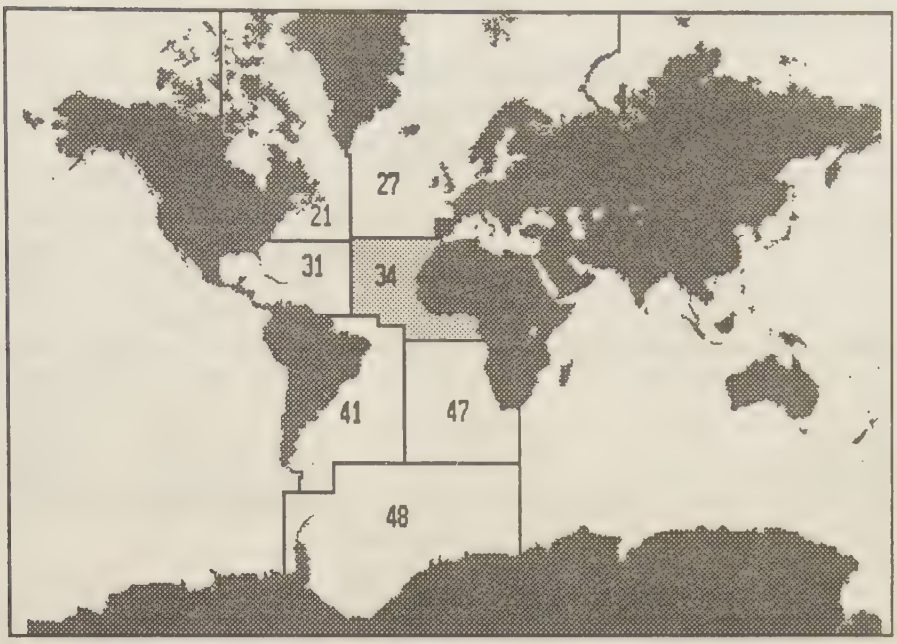
Fluctuation..... 10 %
Trend..... 18.76 %
Rank..... 11 of 12 based on:1990
Percent to total..... 1.23 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MOLLUSCS
Area.....ATLANTIC, WESTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 8.82 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5. ATLANTIC, EASTERN CENTRAL (Area 34)



Major producers of fish, crustaceans and molluscs (1990 ranking): USSR:44.53%, Morocco:13.40%, Spain:8.67%, Ghana:7.98%, Senegal:6.97%, Nigeria:2.27%, Mauritania:1.87%, Romania:1.64%, Cameroon:1.55%, France:1.55%, Côte dIvoire:1.50%, Sierra Leone:0.94%, Italy:0.66%, Congo:0.57%, Guinea:0.57%, Japan:0.56%, Portugal:0.52%, Other nei B:0.46%, Gabon:0.46%, Korea Rep:0.40%, Gambia:0.38%, Germany NL:0.34%, Panama:0.33%, Togo:0.29%, Greece:0.24%, Benin:0.23%, St Vincent:0.17%, Honduras:0.17%, GuineaBissau:0.14%, China:0.11%, Cape Verde:0.09%, Eq Guinea:0.08%, Cuba:0.08%, Liberia:0.06%, Sao Tome Prn:0.05%, Zaire:0.05%.

Major species and percentages based on 1990 ranking: European pilchard(= Sardine):30.16%, European anchovy:9.37%, Round sardinella:8.43%, Jack and horse mackerels nei:6.99%, Sardinellas nei:6.69%, Chub mackerel:4.64%, Yellowfin tuna:3.68%, Skipjack tuna:2.92%, Octopuses:2.67%, Bonga shad:2.63%, Largehead hairtail:2.19%, Cuttlefishes, bobtail squids:1.14%, West African croakers:1.05%, Bigeye grunt:1.03%, Bigeye tuna:0.89%, Porgies, seabreams, nei:0.83%, Common octopus:0.72%, Madeiran sardinella:0.63%, Atlantic black skipjack:0.58%, Sharks, rays, skates, etc:0.52%, False scad:0.49%, Atlantic bumper:0.44%, Mullets nei:0.43%, Senegalese hake:0.42%, Natantian decapods nei:0.40%, Southern pink shrimp:0.37%, Grunts, sweetlips, nei:0.36%, Groupers nei:0.33%, Palaemonid shrimps:0.32%, European hake:0.30%, Flatfishes nei:0.30%, Sea catfishes nei:0.29%, OTHER SPECIES:5.76%.

5.1 Production of diadromous fish (ISSCAAP GROUPS 21-25).

Table 5.1.1

ATLANTIC, EASTERN CENTRAL
Diadromous fish (ISSCAAP GROUPS 21-25),
ranked by 1990 production

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
West African ilisha	1	8136	98.8 %	Rising
Shads nei	2	94	1.1 %	Stable (+)
European eel	3	4	0.1 %	Declining
TOTAL DIADROMOUS		8234	100.0 %	Rising

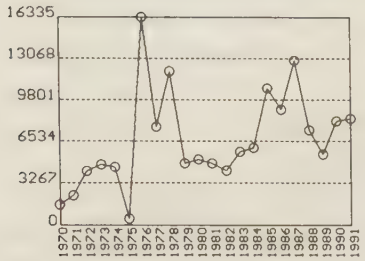
Proportion coming from declining catches.....	0.1 %
from stable catches.....	1.1 %
from rising catches.....	98.8 %

Major fishing countries ranked by 1990 production: Ghana:81.22%, Benin:8.20%, Sierra Leone:6.92%, Liberia:1.81%, Morocco:1.19%, Togo:0.66%.

Table 5.1.2

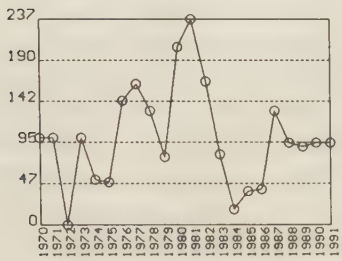
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of diadromous species in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
West African ilisha	1	5116	1 96.1%	1600	1 94.1%
Shads nei	2	205	2 3.9%	100	2 5.9%
European eel	3	5	3 0.1%	0	3 0.0%
TOTALS		5326	100.0%	1700	100.0%



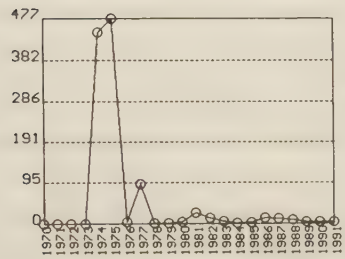
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....West African ilisha
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 17 %
Trend..... 12.51 %
Rank..... 1 of 4 based on:1990
Percent to total..... 98.81 % , Cumulative: 98.81 %



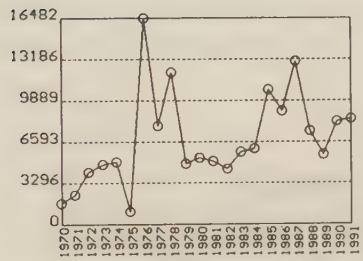
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Shads nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 0.47 %
Rank..... 2 of 4 based on:1990
Percent to total..... 1.14 % , Cumulative: 99.95 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European eel
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-42.26 %
Rank..... 3 of 4 based on:1990
Percent to total..... 0.05 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL DIADROMOUS
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 18 %
Trend..... 11.92 %
Rank..... 4 of 4 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5.2 Production of flounders, halibuts, soles, etc. (ISSCAAP GROUP 31)

Table 5.2.1

ATLANTIC, EASTERN CENTRAL
Flounders, halibuts, soles, etc.,
(ISSCAAP GROUP 31), ranked by 1990 production

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Flatfishes nei	1	11011	42.0 %	Rising
Tonguefishes nei	2	7476	28.5 %	Declining
Common sole	3	4517	17.2 %	Rising
Soles nei	4	2102	8.0 %	Rising
Wedge(=Senegal) sole	5	920	3.5 %	Sharp rise
Lefteye flounders	6	208	0.8 %	Sharp rise
Megrim	7	0	0.0 %	Declining
TOTAL FLOUNDERS, SOLES, ETC.		26234	100.0 %	Rising

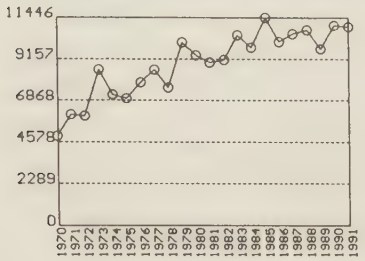
Proportion coming from declining catches.....	28.5 %
from stable catches.....	0.0 %
from rising catches.....	71.5 %

Major fishing countries ranked by 1990 production: Morocco:20.24%, Nigeria:20.08%, Senegal:16.23%, Italy:12.01%, Spain:7.64%, Mauritania:7.55%, Cameroon:3.18%, Congo:2.61%, Korea Rep:2.26%, Gambia:1.77%, Eq Guinea:1.33%, Ghana:1.04%, Côte dIvoire:0.90%, Greece:0.65%, Liberia:0.58%, Sierra Leone:0.46%, GuineaBissau:0.44%, USSR:0.40%, Gabon:0.38%, Zaire:0.15%, Benin:0.07%, Portugal:0.02%, Togo:0.01%.

Table 5.2.2

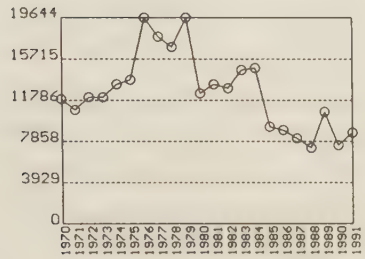
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of flounders, halibuts, soles, etc.,
(ISSCAAP GROUP 31), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Flatfishes nei	1	9370	2 31.5%	4900	2 27.1%
Tonguefishes nei	2	12479	1 41.9%	11900	1 65.8%
Common sole	3	7509	3 25.2%	900	3 5.0%
Soles nei	4	57	5 0.2%	400	4 2.2%
Wedge(=Senegal) sole	5	0	6 0.0%	0	5 0.0%
Lefteye flounders	6	0	7 0.0%	0	6 0.0%
Megrim	7	364	4 1.2%	0	7 0.0%
TOTALS		29779	100.0%	18100	100.0%



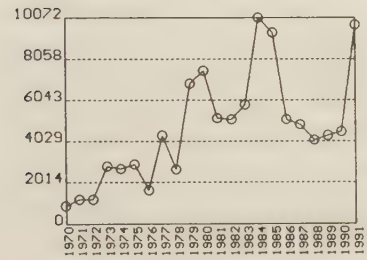
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Flatfishes nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... 9.90 %
Rank..... 1 of 6 based on:1990
Percent to total..... 41.97 % , Cumulative: 41.97 %



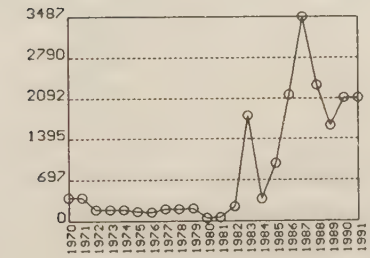
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tonguefishes nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... -7.72 %
Rank..... 2 of 6 based on:1990
Percent to total..... 28.50 % , Cumulative: 70.47 %



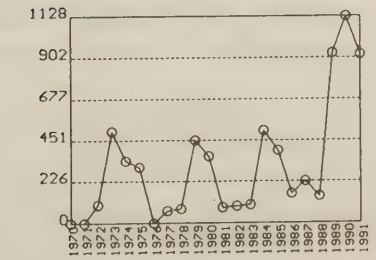
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common sole
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 20.77 %
Rank..... 3 of 6 based on:1990
Percent to total..... 17.22 % , Cumulative: 87.69 %



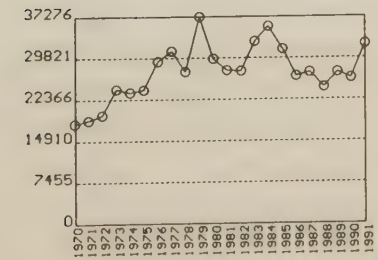
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Soles nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 45.38 %
Rank..... 4 of 6 based on:1990
Percent to total..... 8.01 % , Cumulative: 95.70 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER FLOUNDERS, SOLES, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 32.74 %
Rank..... 5 of 6 based on:1990
Percent to total..... 4.30 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL FLOUNDERS, SOLES, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 5.07 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5.3 Production of cods, hakes, haddocks, etc. (ISSCAAP GROUP 32)

Table 5.3.1

ATLANTIC, EASTERN CENTRAL
Cods, hakes, haddocks, etc.,
(ISSCAAP GROUP 32), ranked by 1990 production

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Senegalese hake	1	15525	49.6 %	Declining
European hake	2	11205	35.8 %	Rising
Pouting(=Bib)	3	2884	9.2 %	Rising
Blue whiting(=Poutassou)	4	1028	3.3 %	Declining
Gadiformes nei	5	499	1.6 %	Declining
Hakes nei	6	145	0.5 %	Sharp rise
Greater forkbeard	7	0	0.0 %	Stable (+)
TOTAL CODS, HAKES, ETC.		31286	100.0 %	Declining

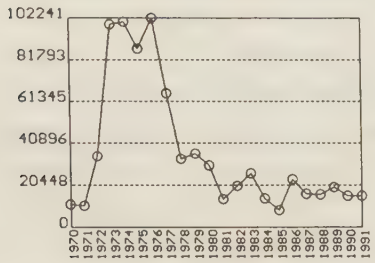
Proportion coming from declining catches.....	54.5 %
from stable catches.....	0.0 %
from rising catches.....	45.5 %

Major fishing countries ranked by 1990 production: Spain:56.11%, Morocco:29.14%, USSR:4.75%, Portugal:4.57%, Italy:3.64%, Eq Guinea:1.28%, Mauritania:0.19%, St Vincent:0.15%, Panama:0.12%, Senegal:0.04%.

Table 5.3.2

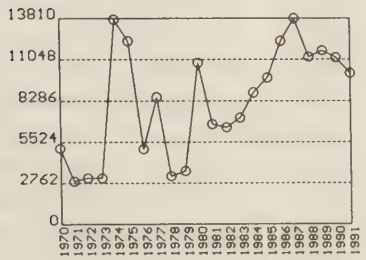
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of cods, hakes, haddocks, etc.,
(ISSCAAP GROUP 32), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Senegalese hake	1	30042	1 58.3%	11300	1 52.6%
European hake	2	10847	2 21.1%	5100	2 23.7%
Pouting(=Bib)	3	958	4 1.9%	700	5 3.3%
Blue whiting(=Poutassou)	4	9235	3 17.9%	2800	3 13.0%
Gadiformes nei	5	323	5 0.6%	1500	4 7.0%
Hakes nei	6	0	7 0.0%	0	7 0.0%
Greater forkbeard	7	108	6 0.2%	100	6 0.5%
TOTALS		51513	100.0%	21500	100.0%



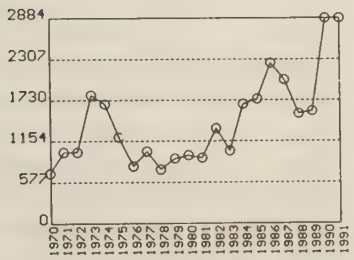
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Senegalese hake
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-23.98 %
Rank..... 1 of 6 based on:1990
Percent to total..... 49.62 % , Cumulative: 49.62 %



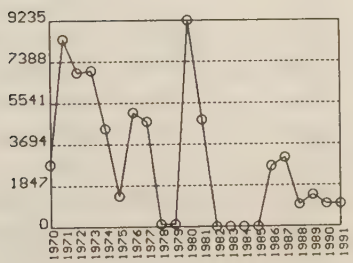
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European hake
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 14.45 %
Rank..... 2 of 6 based on:1990
Percent to total..... 35.81 % , Cumulative: 85.44 %



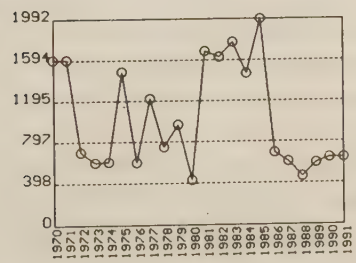
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Pouting(=Bib)
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 16.37 %
Rank..... 3 of 6 based on:1990
Percent to total..... 9.22 % , Cumulative: 94.66 %



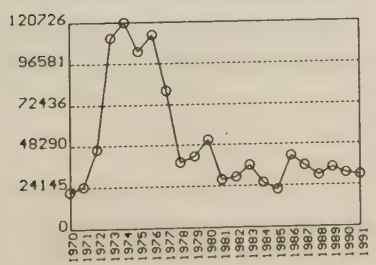
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blue whiting(=Poutassou)
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend.....-29.79 %
Rank..... 4 of 6 based on:1990
Percent to total..... 3.29 % , Cumulative: 97.94 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER CODS, HAKES, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 20 %
Trend..... -5.42 %
Rank..... 5 of 6 based on:1990
Percent to total..... 2.05 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CODS, HAKES, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-16.46 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5.4 Production of redfishes, basses, congers, etc. (ISSCAAP GROUP 33).

Table 5.4.1
ATLANTIC, EASTERN CENTRAL
Redfishes, basses, congers, etc. (top 30 species), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
West African croakers	1	38994	16.5 %	Stable (-)
Bigeye grunt	2	38003	16.1 %	Stable (+)
Porgies, seabreams, nei	3	30657	13.0 %	Declining
Grunts, sweetlips, nei	4	13177	5.6 %	Stable (-)
Groupers nei	5	12240	5.2 %	Stable (+)
Sea catfishes nei	6	10903	4.6 %	Rising
Croakers, drums nei	7	10523	4.5 %	Declining
Meagre	8	8229	3.5 %	Rising
Snappers nei	9	6954	2.9 %	Declining
Red pandora	10	6391	2.7 %	Rising
Dentex nei	11	5981	2.5 %	Rising
Largeeye dentex	12	4706	2.0 %	Declining
Groupers, seabasses nei	13	3984	1.7 %	Rising
Pandoras nei	14	3688	1.6 %	Declining
Pargo breams, nei	15	3356	1.4 %	Stable (-)
Rubberlip grunt	16	3348	1.4 %	Rising
Surmullets(=Red mullets)	17	3118	1.3 %	Rising
Sargo breams, nei	18	2979	1.3 %	Sharp rise
Slender snipefish	19	2813	1.2 %	Rising
White grouper	20	2169	0.9 %	Stable (+)
European conger	21	2169	0.9 %	Rising
Demersal percomorphs nei	22	2167	0.9 %	Declining
Common dentex	23	1783	0.8 %	Rising
Drums	24	1452	0.6 %	Rising
Scorpionfishes, nei	25	1356	0.6 %	Rising
Bogue	26	1210	0.5 %	Rising
Gurnards, searobins nei	27	1150	0.5 %	Declining
Red porgy	28	1067	0.5 %	Rising
Dusky grouper	29	1067	0.5 %	Rising
African sicklefish	30	986	0.4 %	Stable (-)
TOTAL REDFISHES, BASSES, ETC.		236327	100.0 %	Stable (-)

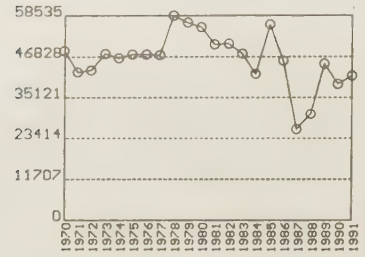
Proportion coming from declining catches.....	25.9 %
from stable catches.....	46.6 %
from rising catches.....	27.5 %

Major fishing countries ranked by 1990 production: Senegal:17.71%, Ghana:15.31%, Nigeria:11.11%, USSR:9.64%, Mauritania:9.07%, Morocco:6.99%, Côte dIvoire:3.91%, Italy:3.25%, Korea Rep:3.21%, Panama:3.00%, Cameroon:2.86%, Congo:1.93%, Greece:1.92%, Sierra Leone:1.57%, Benin:0.98%, Spain:0.94%, Portugal:0.91%, St Vincent:0.82%, Gambia:0.77%, Gabon:0.76%, Romania:0.76%, Honduras:0.66%, China:0.55%, GuineaBissau:0.44%, Liberia:0.35%, Zaire:0.19%, Togo:0.12%, Sao Tome Prn:0.12%, Eq Guinea:0.11%, Germany NL:0.02%.

Table 5.4.2

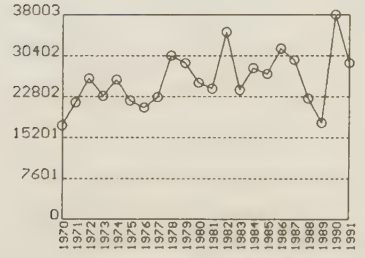
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of redfishes, basses, congers, etc., (top 30 species), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	-1980- CATCH (MT)	-1980- RANK	-1980- AND PERCENT	-1970- CATCH (MT)	-1970- RANK	-1970- AND PERCENT
West African croakers	1	55289	2	16.6%	48600	2	17.7%
Bigeye grunt	2	25319	5	7.6%	17500	7	6.4%
Porgies, seabreams, nei	3	27117	4	8.1%	76100	1	27.7%
Grunts, sweetlips, nei	4	12276	8	3.7%	4500	10	1.6%
Groupers nei	5	11458	9	3.4%	9200	8	3.4%
Sea catfishes nei	6	13685	7	4.1%	3400	11	1.2%
Croakers, drums nei	7	8548	12	2.6%	20400	5	7.4%
Meagre	8	1615	21	0.5%	1000	18	0.4%
Snappers nei	9	8786	10	2.6%	1900	14	0.7%
Red pandora	10	8615	11	2.6%	0	71	0.0%
Dentex nei	11	5793	13	1.7%	500	23	0.2%
Largeeye dentex	12	4694	14	1.4%	19600	6	7.1%
Groupers, seabasses nei	13	1368	26	0.4%	0	41	0.0%
Pandoras nei	14	2702	17	0.8%	20600	4	7.5%
Pargo breams, nei	15	4690	15	1.4%	300	26	0.1%
Rubberlip grunt	16	469	38	0.1%	0	37	0.0%
Surmullets(=Red mullets)	17	2545	18	0.8%	2500	12	0.9%
Sargo breams, nei	18	0	57	0.0%	0	56	0.0%
Slender snipefish	19	28918	3	8.7%	0	36	0.0%
White grouper	20	610	37	0.2%	2000	13	0.7%
European conger	21	1862	20	0.6%	800	19	0.3%
Demersal percomorphs nei	22	17370	6	5.2%	31300	3	11.4%
Common dentex	23	2155	19	0.7%	1300	16	0.5%
Drums	24	738	27	0.2%	0	35	0.0%
Scorpionfishes, nei	25	718	29	0.2%	400	24	0.2%
Bogue	26	709	30	0.2%	200	30	0.1%
Gurnards, searobins nei	27	651	31	0.2%	700	20	0.3%
Red porgy	28	213	42	0.1%	1600	15	0.6%
Dusky grouper	29	1379	25	0.4%	0	44	0.0%
African sicklefish	30	1431	23	0.4%	1200	17	0.4%
TOTALS		333245		100.0%	275000		100.0%



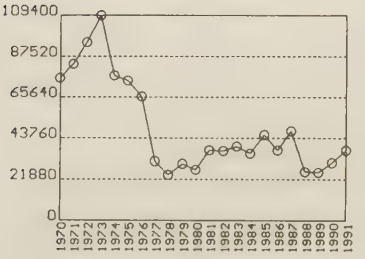
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....West African croakers
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... -3.30 %
Rank..... 1 of 12 based on:1990
Percent to total..... 16.50 % , Cumulative: 16.50 %



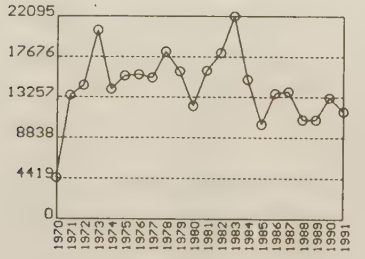
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bigeye grunt
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 19 %
Trend..... 4.84 %
Rank..... 2 of 12 based on:1990
Percent to total..... 16.08 % , Cumulative: 32.58 %



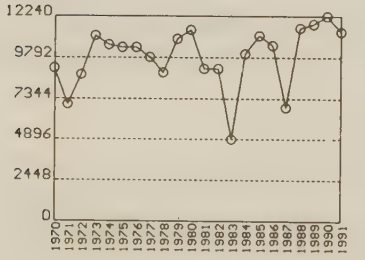
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Porgies, seabreams, nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-20.18 %
Rank..... 3 of 12 based on:1990
Percent to total..... 12.97 % , Cumulative: 45.55 %



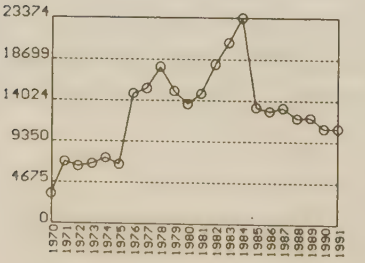
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Grunts, sweetlips, nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... -1.57 %
Rank..... 4 of 12 based on:1990
Percent to total..... 5.58 % , Cumulative: 51.13 %



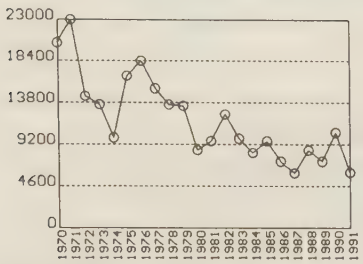
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Groupers nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 2.67 %
Rank..... 5 of 12 based on:1990
Percent to total..... 5.18 % , Cumulative: 56.31 %



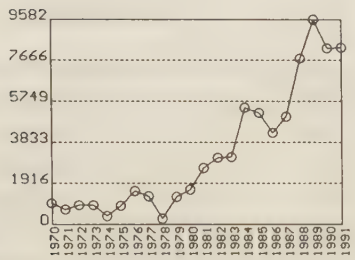
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sea catfishes nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 9.62 %
Rank..... 6 of 12 based on:1990
Percent to total..... 4.61 % , Cumulative: 60.92 %



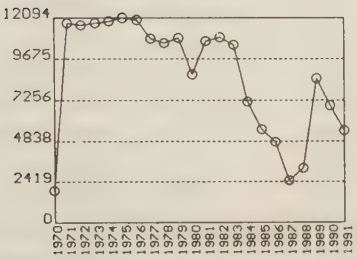
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Croakers, drums nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-17.15 %
Rank..... 7 of 12 based on:1990
Percent to total..... 4.45 % , Cumulative: 65.37 %



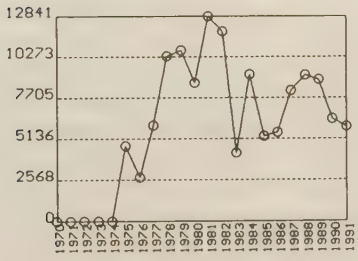
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Meagre
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 42.92 %
Rank..... 8 of 12 based on:1990
Percent to total..... 3.48 % , Cumulative: 68.86 %



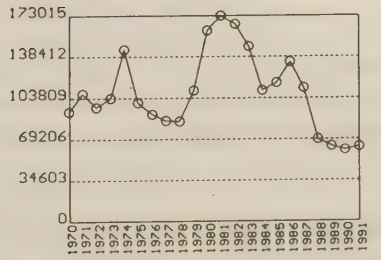
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Snappers nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-11.01 %
Rank..... 9 of 12 based on:1990
Percent to total..... 2.94 % , Cumulative: 71.80 %



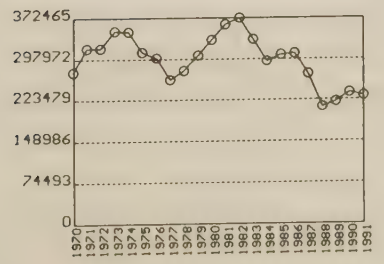
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Red pandora
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 22.34 %
Rank..... 10 of 12 based on:1990
Percent to total..... 2.70 % , Cumulative: 74.50 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER REDFISHES, BASSES, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -3.16 %
Rank..... 11 of 12 based on:1990
Percent to total..... 25.49 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL REDFISHES, BASSES, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -4.29 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5.5 Production of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34).

Table 5.5.1

ATLANTIC, EASTERN CENTRAL
Jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Jack and horse mackerels nei	1	259187	69.0 %	Declining
False scad	2	18349	4.9 %	Rising
Atlantic bumper	3	16448	4.4 %	Rising
Mullets nei	4	15881	4.2 %	Rising
Barracudas	5	10059	2.7 %	Declining
Threadfins, tasselfishes nei	6	8473	2.3 %	Declining
Jacks, crevalles, nei	7	8452	2.3 %	Declining
Lesser African threadfin	8	8440	2.3 %	Rising
Scads	9	7743	2.1 %	Declining
Lookdown fish	10	6050	1.6 %	Stable (-)
Crevalle jack	11	5254	1.4 %	Declining
Carangids nei	12	2520	0.7 %	Declining
Atlantic pomfret	13	2489	0.7 %	Sharp rise
Leerfish(=Garrick)	14	1931	0.5 %	Rising
Bluefish	15	1613	0.4 %	Declining
Blue butterfish	16	543	0.1 %	Declining
Royal threadfin	17	448	0.1 %	Rising
Flyingfishes nei	18	372	0.1 %	Rising
Halfbeaks nei	19	366	0.1 %	Rising
Atlantic horse mackerel	20	355	0.1 %	Declining
Pelagic percomorphs nei	21	231	0.1 %	Declining
Giant African threadfin	22	147	0.0 %	Sharp rise
Needlefishes, nei	23	112	0.0 %	Sharp rise
Pompanos	24	94	0.0 %	Rising
Butterfishes, silver pomfrets	25	10	0.0 %	Sharp rise
Cobia	26	0	0.0 %	Rising
Common dolphinfish	27	0	0.0 %	Sharp rise
Flathead grey mullet	28	0	0.0 %	Stable (-)
Amberjacks nei	29	0	0.0 %	Rising
TOTAL JACKS, MULLETS, ETC.		375567	100.0 %	Declining

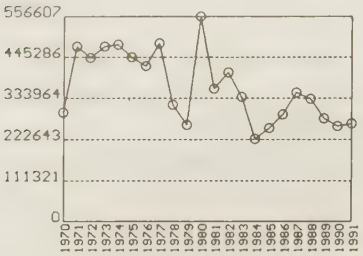
Proportion coming from declining catches.....	81.1 %
from stable catches.....	1.6 %
from rising catches.....	17.3 %

Major fishing countries ranked by 1990 production: USSR:65.44%, Ghana:10.32%, Senegal:6.17%, Morocco:4.01%, Romania:3.79%, Nigeria:3.27%, Germany NL:0.94%, GuineaBissau:0.77%, Côte dIvoire:0.75%, Benin:0.63%, Portugal:0.58%, Spain:0.58%, Mauritania:0.53%, Sierra Leone:0.35%, Gabon:0.33%, Congo:0.26%, Sao Tome Prn:0.22%, Gambia:0.20%, Cameroon:0.19%, Zaire:0.19%, Italy:0.19%, Togo:0.16%, Liberia:0.06%, Eq Guinea:0.05%, Korea Rep:0.01%.

Table 5.5.2

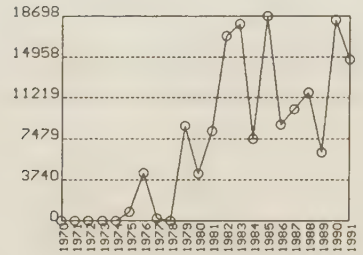
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Jack and horse mackerels nei	1	556607	1 82.3%	295500	1 74.3%
False scad	2	4327	11 0.6%	0	15 0.0%
Atlantic bumper	3	3083	12 0.5%	2500	10 0.6%
Mullets nei	4	14792	5 2.2%	9800	7 2.5%
Barracudas	5	15263	4 2.3%	7600	8 1.9%
Threadfins, tasselfishes nei	6	17527	3 2.6%	24600	2 6.2%
Jacks, crevalles, nei	7	19280	2 2.9%	11300	5 2.8%
Lesser African threadfin	8	5685	9 0.8%	200	14 0.1%
Scads	9	12625	6 1.9%	10600	6 2.7%
Lookdown fish	10	4368	10 0.7%	3200	9 0.8%
Crevalle jack	11	9411	7 1.4%	14700	4 3.7%
Carangids nei	12	2577	14 0.4%	600	12 0.2%
Atlantic pomfret	13	13	22 0.0%	0	21 0.0%
Leerfish(=Garrick)	14	76	20 0.0%	0	19 0.0%
Bluefish	15	5873	8 0.9%	15500	3 3.9%
Blue butterfish	16	143	18 0.0%	0	17 0.0%
Royal threadfin	17	342	16 0.1%	0	29 0.0%
Flyingfishes nei	18	118	19 0.0%	0	18 0.0%
Halfbeaks nei	19	38	21 0.0%	0	20 0.0%
Atlantic horse mackerel	20	1259	15 0.2%	500	13 0.1%
Pelagic percomorphs nei	21	2930	13 0.4%	1300	11 0.3%
Giant African threadfin	22	0	29 0.0%	0	28 0.0%
Needlefishes, nei	23	0	23 0.0%	0	22 0.0%
Pompanos	24	0	24 0.0%	0	23 0.0%
Butterfishes, silver pomfrets	25	0	25 0.0%	0	24 0.0%
Cobia	26	0	27 0.0%	0	26 0.0%
Common dolphinfish	27	0	26 0.0%	0	25 0.0%
Flathead grey mullet	28	221	17 0.0%	0	16 0.0%
Amberjacks nei	29	0	28 0.0%	0	27 0.0%
TOTALS		676558	100.0%	397900	100.0%



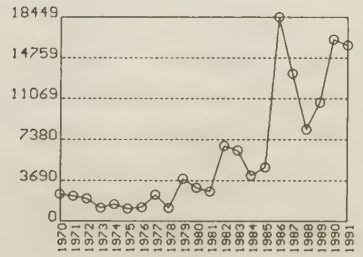
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Jack and horse mackerels nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 16 %
Trend..... -8.70 %
Rank..... 1 of 12 based on:1990
Percent to total..... 69.01 % , Cumulative: 69.01 %



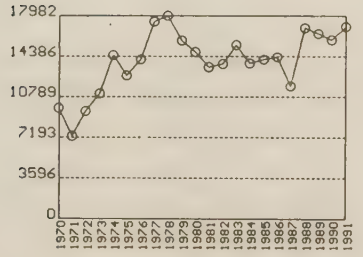
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....False scad
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 19 %
Trend..... 40.16 %
Rank..... 2 of 12 based on:1990
Percent to total..... 4.89 % , Cumulative: 73.90 %



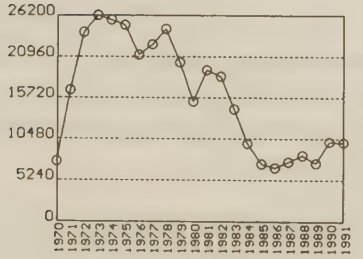
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic bumper
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 40.75 %
Rank..... 3 of 12 based on:1990
Percent to total..... 4.38 % , Cumulative: 78.28 %



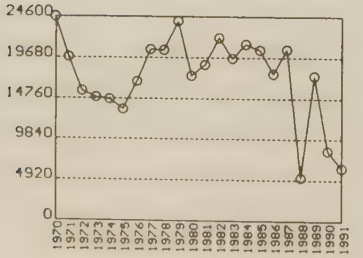
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mullets nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 6.44 %
Rank..... 4 of 12 based on:1990
Percent to total..... 4.23 % , Cumulative: 82.51 %



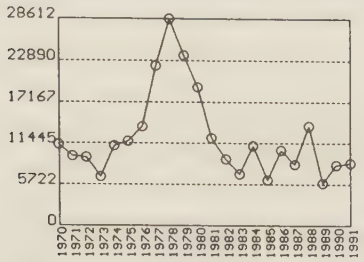
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Barracudas
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 5 %
Trend.....-16.59 %
Rank..... 5 of 12 based on:1990
Percent to total..... 2.68 % , Cumulative: 85.18 %



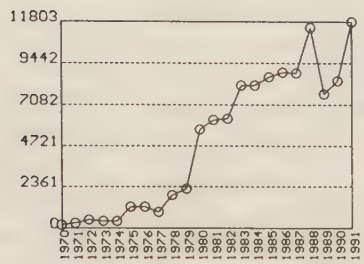
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Threadfins, tasselfishes nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... -6.37 %
Rank..... 6 of 12 based on:1990
Percent to total..... 2.26 % , Cumulative: 87.44 %



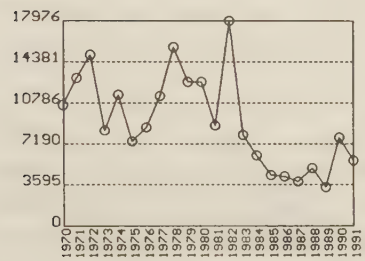
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Jacks, crevalles, nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... -6.14 %
Rank..... 7 of 12 based on:1990
Percent to total..... 2.25 % , Cumulative: 89.69 %



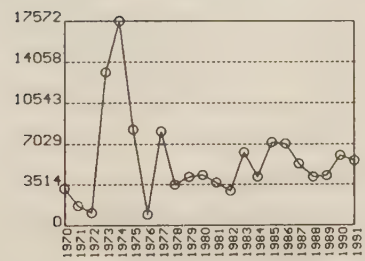
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Lesser African threadfin
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 41.32 %
Rank..... 8 of 12 based on:1990
Percent to total..... 2.25 % , Cumulative: 91.94 %



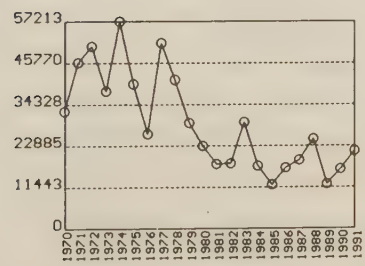
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Scads
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 15 %
Trend.....-14.70 %
Rank..... 9 of 12 based on:1990
Percent to total..... 2.06 % , Cumulative: 94.00 %



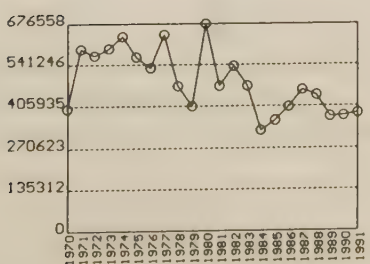
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Lookdown fish
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... -2.88 %
Rank..... 10 of 12 based on:1990
Percent to total..... 1.61 % , Cumulative: 95.61 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER JACKS, MULLETS, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend.....-19.34 %
Rank..... 11 of 12 based on:1990
Percent to total..... 4.38 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL JACKS, MULLETS, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 17 %
Trend..... -7.22 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5.6 Production of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35).

Table 5.6.1

ATLANTIC, EASTERN CENTRAL
Herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
European pilchard(=Sardine)	1	1118084	51.9 %	Rising
European anchovy	2	347247	16.1 %	Rising
Round sardinella	3	312698	14.5 %	Rising
Sardinellas nei	4	247993	11.5 %	Declining
Bonga shad	5	97546	4.5 %	Rising
Madeiran sardinella	6	23376	1.1 %	Rising
Clupeoids nei	7	4013	0.2 %	Rising
Bonefish	8	1771	0.1 %	Rising
TOTAL HERRINGS, SARDINES, ETC.		2152728	100.0 %	Rising

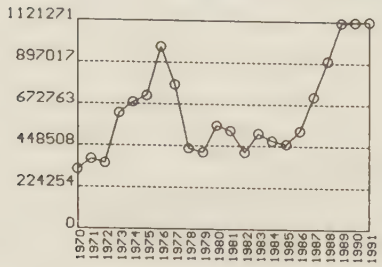
Proportion coming from declining catches.....	11.5 %
from stable catches.....	0.0 %
from rising catches.....	88.5 %

Major fishing countries ranked by 1990 production: USSR:53.94%, Morocco:15.64%, Senegal:7.09%, Ghana:6.60%, Spain:5.60%, Côte dIvoire:1.78%, Romania:1.75%, Cameroon:1.67%, Sierra Leone:1.24%, Nigeria:1.09%, Guinea:0.98%, Congo:0.67%, Gabon:0.44%, Togo:0.43%, Gambia:0.42%, Germany NL:0.35%, Mauritania:0.13%, Benin:0.09%, Zaire:0.04%, Liberia:0.02%, Bulgaria:0.02%, Eq Guinea:0.01%.

Table 5.6.2

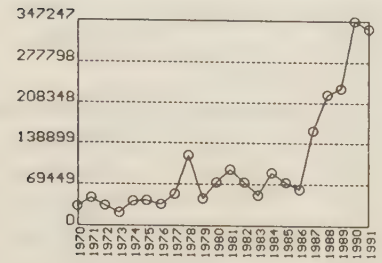
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
European pilchard(=Sardine)	1	556351	1 47.7%	319500	2 40.5%
European anchovy	2	72468	5 6.2%	33100	4 4.2%
Round sardinella	3	90777	4 7.8%	0	7 0.0%
Sardinellas nei	4	345371	2 29.6%	391600	1 49.7%
Bonga shad	5	99996	3 8.6%	41400	3 5.3%
Madeiran sardinella	6	464	8 0.0%	1400	5 0.2%
Clupeoids nei	7	1054	6 0.1%	1200	6 0.2%
Bonefish	8	949	7 0.1%	0	8 0.0%
TOTALS		1167430	100.0%	788200	100.0%



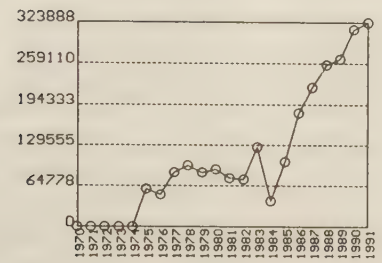
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European pilchard(=Sardine)
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 12.27 %
Rank..... 1 of 6 based on:1990
Percent to total..... 51.94 % , Cumulative: 51.94 %



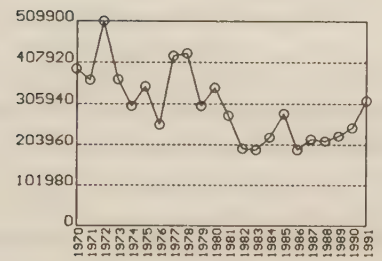
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....European anchovy
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 39.08 %
Rank..... 2 of 6 based on:1990
Percent to total..... 16.13 % , Cumulative: 68.07 %



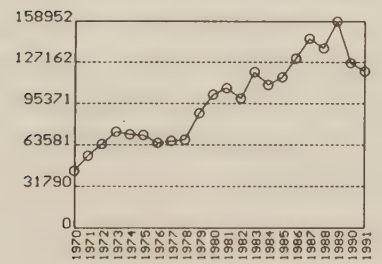
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Round sardinella
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 45.27 %
Rank..... 3 of 6 based on:1990
Percent to total..... 14.53 % , Cumulative: 82.59 %



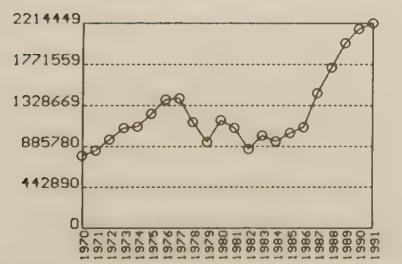
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sardinellas nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend.....-10.85 %
Rank..... 4 of 6 based on:1990
Percent to total..... 11.52 % , Cumulative: 94.11 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 16.70 %
Rank..... 5 of 6 based on:1990
Percent to total..... 5.89 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 12.23 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5.7 Production of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36).

Table 5.7.1

ATLANTIC, EASTERN CENTRAL
Tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Yellowfin tuna	1	136364	42.1 %	Rising
Skipjack tuna	2	108206	33.4 %	Rising
Bigeye tuna	3	32910	10.2 %	Stable (-)
Atlantic black skipjack	4	21374	6.6 %	Rising
Frigate and bullet tunas	5	9004	2.8 %	Rising
Swordfish	6	3708	1.1 %	Rising
West African Spanish mackerel	7	3668	1.1 %	Rising
Atlantic bonito	8	2052	0.6 %	Rising
Atlantic sailfish	9	1631	0.5 %	Rising
Albacore	10	1236	0.4 %	Declining
Tuna-like fishes nei	11	1171	0.4 %	Declining
Northern bluefin tuna	12	944	0.3 %	Declining
Wahoo	13	647	0.2 %	Rising
Atlantic blue marlin	14	448	0.1 %	Declining
Plain bonito	15	310	0.1 %	Rising
Marlins,sailfishes,spearfishes	16	252	0.1 %	Rising
Atlantic white marlin	17	113	0.0 %	Declining
Tunas nei	18	0	0.0 %	Stable (+)
TOTAL TUNAS, BONITOS, ETC.		324038	100.0 %	Rising

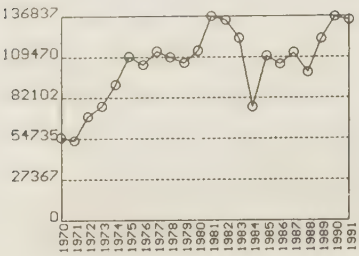
Proportion coming from declining catches.....	1.2 %
from stable catches.....	10.2 %
from rising catches.....	88.6 %

Major fishing countries ranked by 1990 production: Spain:39.58%, France:17.44%, Ghana:17.17%, Japan:6.15%, Other nei B:5.29%, USSR:5.04%, Senegal:2.00%, Portugal:1.31%, Cape Verde:1.06%, Korea Rep:0.93%, Côte dIvoire:0.87%, Morocco:0.85%, Norway:0.55%, Cuba:0.52%, Other nei A:0.33%, Panama:0.27%, Sao Tome Prn:0.17%, Eq Guinea:0.12%, Benin:0.11%, Togo:0.06%, Romania:0.05%, Mauritania:0.03%, Germany NL:0.03%, Sierra Leone:0.03%.

Table 5.7.2

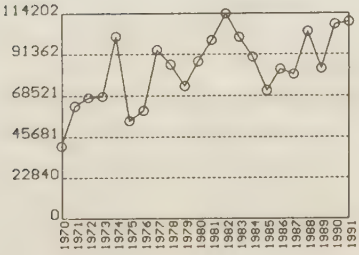
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Yellowfin tuna	1	113702	1 38.7%	55463	1 35.4%
Skipjack tuna	2	87334	2 29.7%	40786	2 26.1%
Bigeye tuna	3	39991	3 13.6%	28780	3 18.4%
Atlantic black skipjack	4	13606	5 4.6%	1076	11 0.7%
Frigate and bullet tunas	5	15023	4 5.1%	5996	5 3.8%
Swordfish	6	2208	9 0.8%	1860	7 1.2%
West African Spanish mackerel	7	4851	7 1.7%	200	15 0.1%
Atlantic bonito	8	7784	6 2.7%	934	12 0.6%
Atlantic sailfish	9	1553	11 0.5%	1078	10 0.7%
Albacore	10	3298	8 1.1%	13275	4 8.5%
Tuna-like fishes nei	11	1555	10 0.5%	2738	6 1.8%
Northern bluefin tuna	12	1434	12 0.5%	1595	8 1.0%
Wahoo	13	25	17 0.0%	0	17 0.0%
Atlantic blue marlin	14	374	14 0.1%	1147	9 0.7%
Plain bonito	15	698	13 0.2%	806	13 0.5%
Marlins,sailfishes,spearfishes	16	183	15 0.1%	0	16 0.0%
Atlantic white marlin	17	110	16 0.0%	777	14 0.5%
Tunas nei	18	0	18 0.0%	0	18 0.0%
TOTALS		293729	100.0%	156511	100.0%



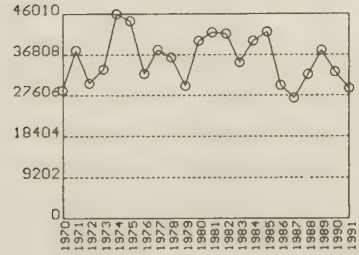
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Yellowfin tuna
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 8.78 %
Rank..... 1 of 12 based on:1990
Percent to total..... 42.08 % , Cumulative: 42.08 %



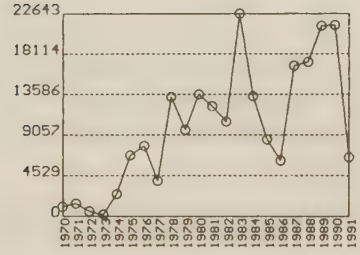
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Skipjack tuna
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 8.12 %
Rank..... 2 of 12 based on:1990
Percent to total..... 33.39 % , Cumulative: 75.48 %



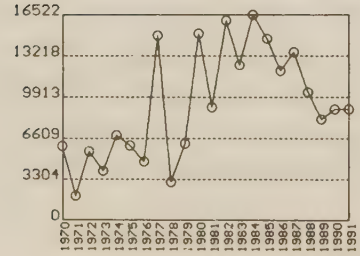
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bigeye tuna
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 17 %
Trend..... -1.37 %
Rank..... 3 of 12 based on:1990
Percent to total..... 10.16 % , Cumulative: 85.63 %



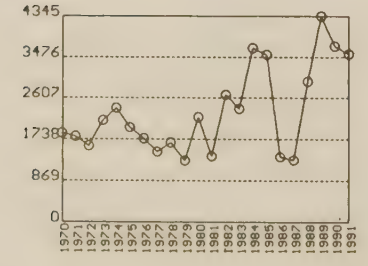
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic black skipjack
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... 27.98 %
Rank..... 4 of 12 based on:1990
Percent to total..... 6.60 % , Cumulative: 92.23 %



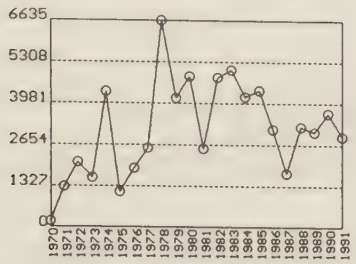
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Frigate and bullet tunas
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 23 %
Trend..... 13.97 %
Rank..... 5 of 12 based on:1990
Percent to total..... 2.78 % , Cumulative: 95.01 %



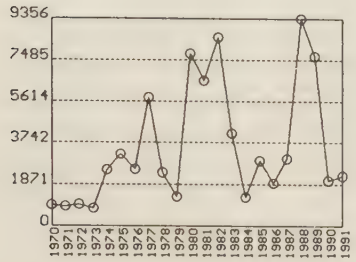
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Swordfish
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 12.61 %
Rank..... 6 of 12 based on:1990
Percent to total..... 1.14 % , Cumulative: 96.15 %



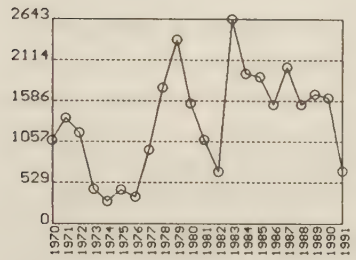
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....West African Spanish mackerel
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 16 %
Trend..... 9.83 %
Rank..... 7 of 12 based on:1990
Percent to total..... 1.13 % , Cumulative: 97.28 %



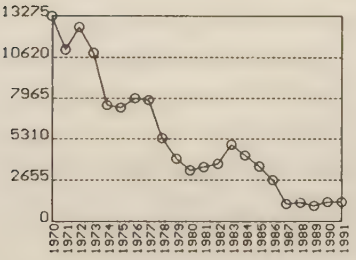
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic bonito
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 18 %
Trend..... 15.74 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.63 % , Cumulative: 97.92 %



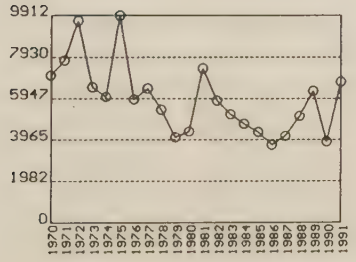
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic sailfish
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... 11.34 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.50 % , Cumulative: 98.42 %



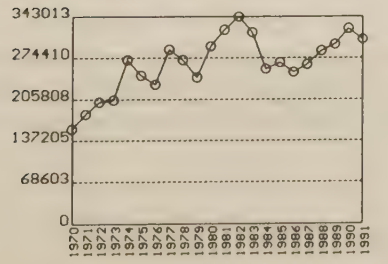
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Albacore
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 3 %
Trend.....-35.87 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.38 % , Cumulative: 98.80 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER TUNAS, BONITOS, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 16 %
Trend..... -9.00 %
Rank..... 11 of 12 based on:1990
Percent to total..... 1.20 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL TUNAS, BONITOS, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 6.94 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5.8 Production of mackerels, snoeks, cutlassfishes, etc. (ISSCAAP GROUP 37).

Table 5.8.1

ATLANTIC, EASTERN CENTRAL
Mackerels,snoeks,etc. (ISSCAAP GROUP 37), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Chub mackerel	1	172126	66.0 %	Stable (+)
Largehead hairtail	2	81075	31.1 %	Rising
Silver scabbardfish	3	3902	1.5 %	Rising
Black scabbardfish	4	3556	1.4 %	Sharp rise
Hairtails, cutlassfishes, nei	5	58	0.0 %	Rising
Atlantic mackerel	6	30	0.0 %	Rising
Mackerel-like fishes nei	7	8	0.0 %	Rising
'Scomber' mackerels nei	8	0	0.0 %	Rising
TOTAL MACKERELS, SNOEKS, ETC.		260755	100.0 %	Rising

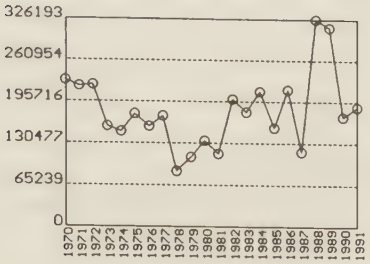
Proportion coming from declining catches.....	0.0 %
from stable catches.....	66.0 %
from rising catches.....	34.0 %

Major fishing countries ranked by 1990 production: USSR:76.79%, Morocco:10.88%, Ghana:3.52%, Portugal:3.32%, Romania:2.59%, Senegal:1.01%, Germany NL:0.61%, Côte dIvoire:0.60%, Benin:0.20%, Italy:0.15%, Eq Guinea:0.12%, Bulgaria:0.07%, Togo:0.05%, Sierra Leone:0.03%, Mauritania:0.02%.

Table 5.8.2

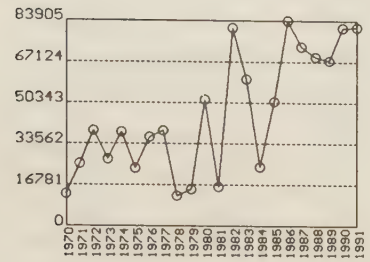
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of mackerels,snoeks,etc., (ISSCAAP GROUP 37), in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Chub mackerel	1	135031	1 71.5%	229300	1 93.9%
Largehead hairtail	2	51674	2 27.3%	13100	2 5.4%
Silver scabbardfish	3	1170	3 0.6%	1500	3 0.6%
Black scabbardfish	4	0	5 0.0%	0	8 0.0%
Hairtails, cutlassfishes, nei	5	0	8 0.0%	0	7 0.0%
Atlantic mackerel	6	0	6 0.0%	0	5 0.0%
Mackerel-like fishes nei	7	1104	4 0.6%	200	4 0.1%
'Scomber' mackerels nei	8	0	7 0.0%	0	6 0.0%
TOTALS		188979	100.0%	244100	100.0%



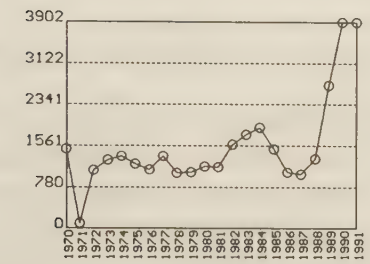
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Chub mackerel
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 18 %
Trend..... 3.56 %
Rank..... 1 of 6 based on:1990
Percent to total..... 66.01 % , Cumulative: 66.01 %



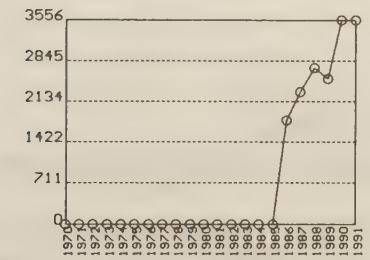
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Largehead hairtail
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 19 %
Trend..... 22.21 %
Rank..... 2 of 6 based on:1990
Percent to total..... 31.09 % , Cumulative: 97.10 %



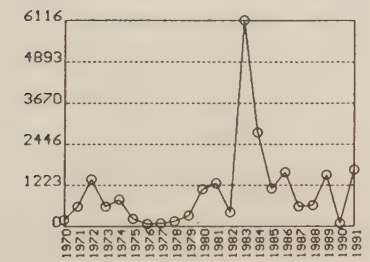
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Silver scabbardfish
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 19.88 %
Rank..... 3 of 6 based on:1990
Percent to total..... 1.50 % , Cumulative: 98.60 %



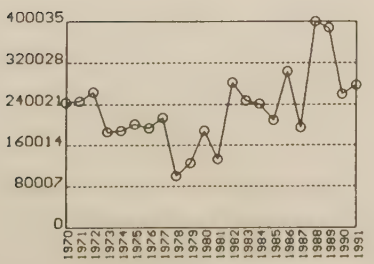
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Black scabbardfish
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 72.83 %
Rank..... 4 of 6 based on:1990
Percent to total..... 1.36 % , Cumulative: 99.96 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER MACKERELS, SNOEKS, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 17.66 %
Rank..... 5 of 6 based on:1990
Percent to total..... 0.03 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MACKERELS, SNOEKS, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 17 %
Trend..... 7.65 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5.9 Production of sharks, rays, chimaeras, etc. (ISSCAAP GROUP 38).

Table 5.9.1

ATLANTIC, EASTERN CENTRAL
Sharks, rays, etc. (ISSCAAP GROUP 38), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Sharks, rays, skates, etc	1	19251	74.6 %	Stable (-)
Skates and rays, nei	2	6392	24.8 %	Declining
Smoothhounds	3	172	0.7 %	Sharp rise
TOTAL SHARKS, RAYS, ETC.		25815	100.0 %	Declining

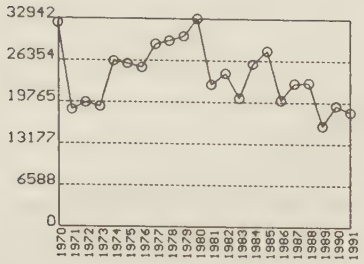
Proportion coming from declining catches.....	24.8 %
from stable catches.....	74.6 %
from rising catches.....	0.7 %

Major fishing countries ranked by 1990 production: Nigeria:32.55%, Senegal:19.23%, Morocco:11.22%, Ghana:6.12%, Italy:4.86%, Cuba:4.82%, Mauritania:3.76%, Japan:2.49%, Gambia:2.40%, Congo:1.95%, Eq Guinea:1.55%, Sierra Leone:1.55%, Benin:1.33%, Sao Tome Prn:1.18%, Côte dIvoire:0.99%, Portugal:0.95%, Cameroon:0.92%, USSR:0.74%, Korea Rep:0.57%, Greece:0.42%, Liberia:0.21%, Other nei A:0.15%.

Table 5.9.2

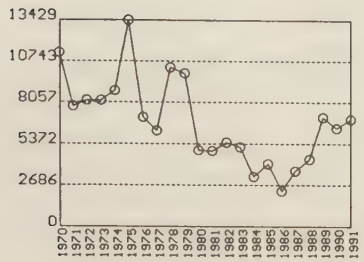
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of sharks,rays,etc., in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Sharks, rays, skates, etc	1	32942	1 86.9%	32200	1 74.0%
Skates and rays, nei	2	4972	2 13.1%	11300	2 26.0%
Smoothhounds	3	0	3 0.0%	0	3 0.0%
TOTALS		37914	100.0%	43500	100.0%



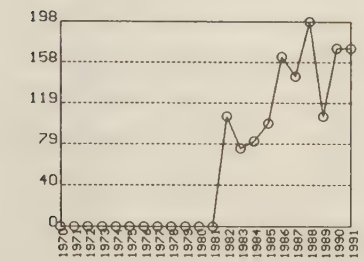
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sharks, rays, skates, etc
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 18 %
Trend..... -3.82 %
Rank..... 1 of 4 based on:1990
Percent to total..... 74.57 % , Cumulative: 74.57 %



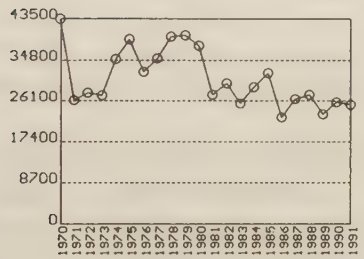
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Skates and rays, nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-13.65 %
Rank..... 2 of 4 based on:1990
Percent to total..... 24.76 % , Cumulative: 99.33 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Smoothhounds
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 57.68 %
Rank..... 3 of 4 based on:1990
Percent to total..... 0.67 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL SHARKS, RAYS, ETC.
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -5.87 %
Rank..... 4 of 4 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5.10 Production of crustaceans (ISSCAAP GROUPS 41-47).

Table 5.10.1

ATLANTIC, EASTERN CENTRAL
Crustaceans (ISSCAAP GROUPS 41-47), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Natantian decapods nei	1	14969	23.9 %	Rising
Southern pink shrimp	2	13546	21.7 %	Rising
Palaemonid shrimps	3	12000	19.2 %	Rising
Deepwater rose shrimp	4	8200	13.1 %	Rising
Palinurid spiny lobsters nei	5	4579	7.3 %	Rising
Marine crustaceans nei	6	3896	6.2 %	Declining
Penaeus shrimps nei	7	2975	4.8 %	Declining
Marine crabs nei	8	1439	2.3 %	Rising
Caramote prawn	9	491	0.8 %	Declining
Tropical spiny lobsters nei	10	217	0.4 %	Stable (+)
Norway lobster	11	158	0.3 %	Declining
European lobster	12	32	0.1 %	Rising
Scarlet shrimp	13	23	0.0 %	Declining
Guinea shrimp	14	0	0.0 %	Rising
TOTAL CRUSTACEANS		62525	100.0 %	Rising

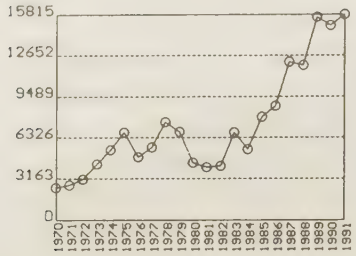
Proportion coming from declining catches.....	12.1 %
from stable catches.....	0.4 %
from rising catches.....	87.6 %

Major fishing countries ranked by 1990 production: Cameroon:20.82%, Spain:15.98%, Nigeria:13.77%, Senegal:9.00%, Morocco:8.47%, Gabon:6.97%, Ghana:4.94%, Greece:3.94%, Italy:3.29%, Gambia:2.23%, GuineaBissau:1.78%, Sierra Leone:1.68%, France:1.28%, USSR:0.91%, Eq Guinea:0.72%, Côte dIvoire:0.62%, Portugal:0.59%, Honduras:0.55%, Mauritania:0.48%, Cayman Is:0.45%, Panama:0.43%, China:0.38%, Togo:0.17%, Liberia:0.16%, St Vincent:0.13%, Cape Verde:0.10%, Benin:0.09%.

Table 5.10.2

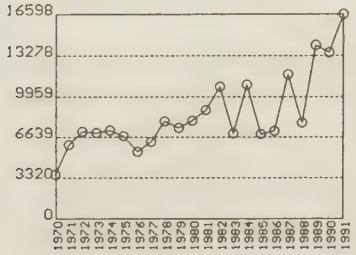
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of crustaceans (ISSCAAP GROUPS 41-47), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Natantian decapods nei	1	4411	4 9.0%	2500	3 7.2%
Southern pink shrimp	2	8021	3 16.4%	3600	2 10.3%
Palaemonid shrimps	3	12000	2 24.5%	0	12 0.0%
Deepwater rose shrimp	4	13573	1 27.7%	0	14 0.0%
Palinurid spiny lobsters nei	5	1468	6 3.0%	900	6 2.6%
Marine crustaceans nei	6	713	11 1.5%	24100	1 69.3%
Penaeus shrimps nei	7	1298	7 2.7%	2100	4 6.0%
Marine crabs nei	8	1032	9 2.1%	1000	5 2.9%
Caramote prawn	9	4057	5 8.3%	0	10 0.0%
Tropical spiny lobsters nei	10	116	13 0.2%	500	7 1.4%
Norway lobster	11	1236	8 2.5%	100	8 0.3%
European lobster	12	24	14 0.1%	0	13 0.0%
Scarlet shrimp	13	994	10 2.0%	0	9 0.0%
Guinea shrimp	14	122	12 0.3%	0	11 0.0%
TOTALS		49065	100.0%	34800	100.0%



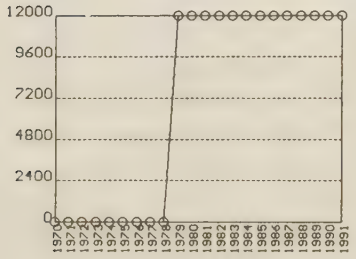
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Natantian decapods nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 25.97 %
Rank..... 1 of 12 based on:1990
Percent to total..... 23.94 % , Cumulative: 23.94 %



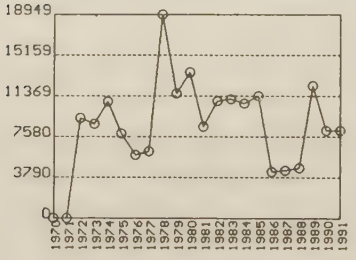
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Southern pink shrimp
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... 15.32 %
Rank..... 2 of 12 based on:1990
Percent to total..... 21.66 % , Cumulative: 45.61 %



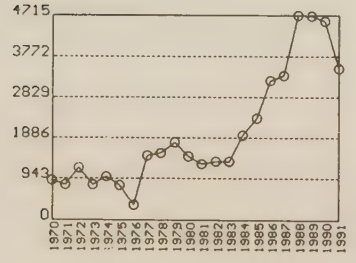
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Palaemonid shrimps
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation.....
Trend..... 39.13 %
Rank..... 3 of 12 based on:1990
Percent to total..... 19.19 % , Cumulative: 64.80 %



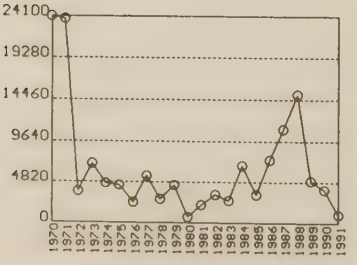
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Deepwater rose shrimp
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... 5.32 %
Rank..... 4 of 12 based on:1990
Percent to total..... 13.11 % , Cumulative: 77.91 %



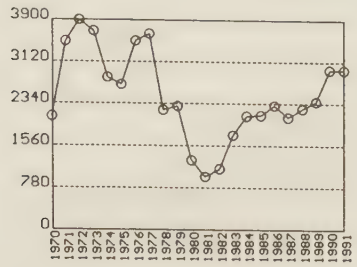
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Palinurid spiny lobsters nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 31.39 %
Rank..... 5 of 12 based on:1990
Percent to total..... 7.32 % , Cumulative: 85.24 %



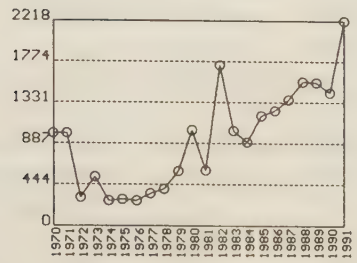
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marine crustaceans nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-17.68 %
Rank..... 6 of 12 based on:1990
Percent to total..... 6.23 % , Cumulative: 91.47 %



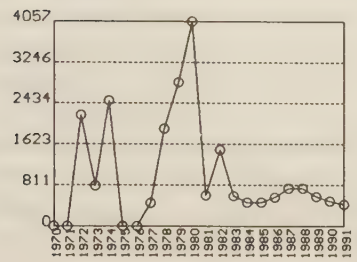
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Penaeus shrimps nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -6.55 %
Rank..... 7 of 12 based on:1990
Percent to total..... 4.76 % , Cumulative: 96.23 %



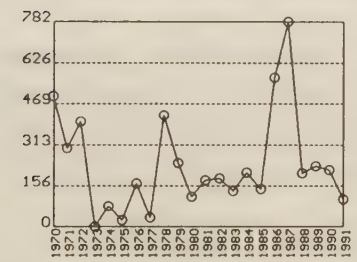
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marine crabs nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 23.66 %
Rank..... 8 of 12 based on:1990
Percent to total..... 2.30 % , Cumulative: 98.53 %



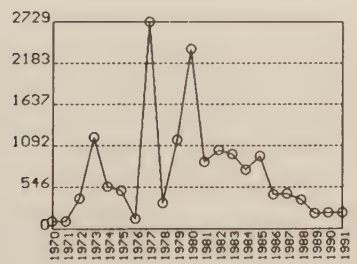
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Caramote prawn
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -7.09 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.79 % , Cumulative: 99.31 %



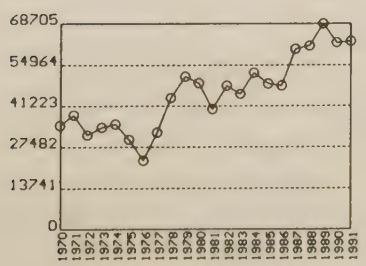
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tropical spiny lobsters nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 17 %
Trend..... 4.11 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.35 % , Cumulative: 99.66 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER CRUSTACEANS
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 18 %
Trend..... -4.75 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.34 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CRUSTACEANS
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 12.90 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

5.11 Production of molluscs (ISSCAAP GROUPS 51-58).

Table 5.11.1

ATLANTIC, EASTERN CENTRAL
Molluscs (ISSCAAP GROUPS 51-58), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Octopuses	1	98875	48.5 %	Rising
Cuttlefishes, bobtail squids	2	42431	20.8 %	Rising
Common octopus	3	26739	13.1 %	Declining
Squids nei	4	9979	4.9 %	Declining
Cephalopods nei	5	9351	4.6 %	Sharp rise
Marine molluscs nei	6	8141	4.0 %	Declining
Common squids	7	6309	3.1 %	Declining
Common cuttlefish	8	1065	0.5 %	Declining
Cupped oysters nei	9	840	0.4 %	Rising
Gastropods nei	10	13	0.0 %	Rising
Sea mussels nei	11	9	0.0 %	Rising
TOTAL MOLLUSCS		203752	100.0 %	Stable (+)

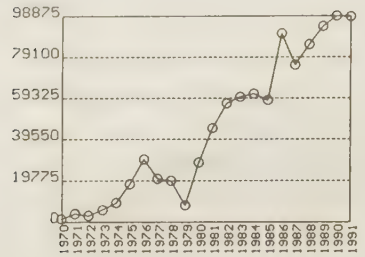
Proportion coming from declining catches.....	25.6 %
from stable catches.....	0.0 %
from rising catches.....	74.4 %

Major fishing countries ranked by 1990 production: Morocco:36.63%, Mauritania:19.46%, Spain:18.93%, Senegal:8.19%, Italy:4.01%, Honduras:2.19%, St Vincent:2.16%, Panama:1.97%, Korea Rep:1.69%, China:1.26%, USSR:1.05%, Ghana:1.04%, Greece:0.85%, Sierra Leone:0.46%, Eq Guinea:0.07%, Sao Tome Prn:0.01%, Portugal:0.01%.

Table 5.11.2

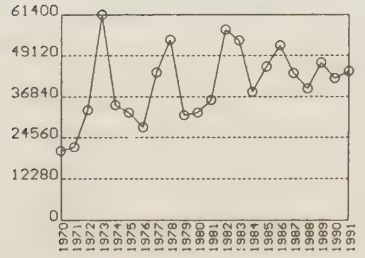
ATLANTIC, EASTERN CENTRAL
Ranking order and proportions of molluscs (ISSCAAP GROUPS 51-58), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Octopuses	1	28618	3 19.2%	1500	7 1.1%
Cuttlefishes, bobtail squids	2	32134	2 21.5%	20500	3 14.6%
Common octopus	3	45803	1 30.7%	70900	1 50.5%
Squids nei	4	20422	4 13.7%	9000	4 6.4%
Cephalopods nei	5	0	11 0.0%	0	11 0.0%
Marine molluscs nei	6	10345	5 6.9%	28300	2 20.2%
Common squids	7	10056	6 6.7%	7500	5 5.3%
Common cuttlefish	8	928	8 0.6%	2600	6 1.9%
Cupped oysters nei	9	1129	7 0.8%	100	8 0.1%
Gastropods nei	10	20	9 0.0%	0	9 0.0%
Sea mussels nei	11	0	10 0.0%	0	10 0.0%
TOTALS		149455	100.0%	140400	100.0%



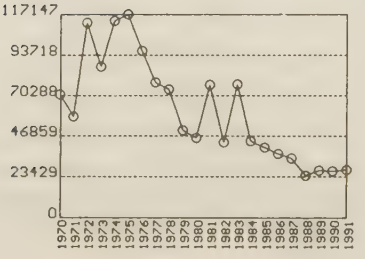
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Octopuses
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 40.74 %
Rank..... 1 of 12 based on:1990
Percent to total..... 48.53 % , Cumulative: 48.53 %



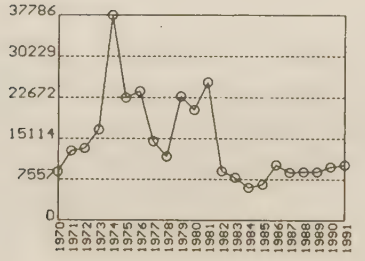
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cuttlefishes, bobtail squids
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 6.62 %
Rank..... 2 of 12 based on:1990
Percent to total..... 20.82 % , Cumulative: 69.35 %



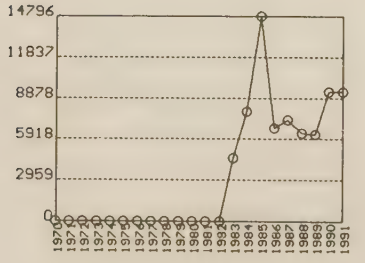
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common octopus
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 13 %
Trend.....-20.88 %
Rank..... 3 of 12 based on:1990
Percent to total..... 13.12 % , Cumulative: 82.48 %



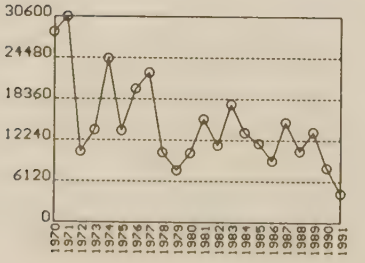
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Squids nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-13.72 %
Rank..... 4 of 12 based on:1990
Percent to total..... 4.90 % , Cumulative: 87.37 %



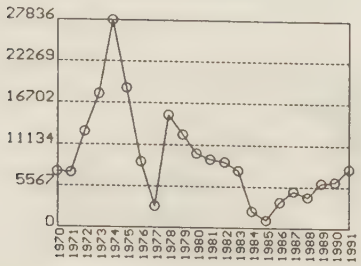
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cephalopods nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 57.25 %
Rank..... 5 of 12 based on:1990
Percent to total..... 4.59 % , Cumulative: 91.96 %



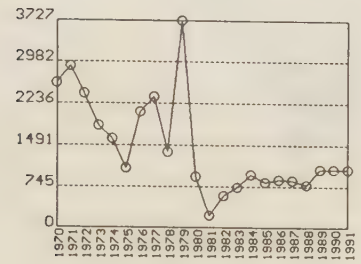
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marine molluscs nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 16 %
Trend.....-15.92 %
Rank..... 6 of 12 based on:1990
Percent to total..... 4.00 % , Cumulative: 95.96 %



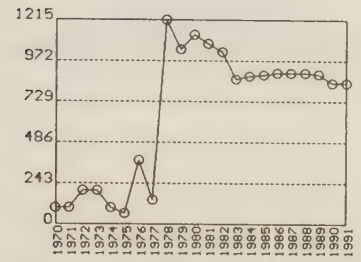
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common squids
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-19.61 %
Rank..... 7 of 12 based on:1990
Percent to total..... 3.10 % , Cumulative: 99.05 %



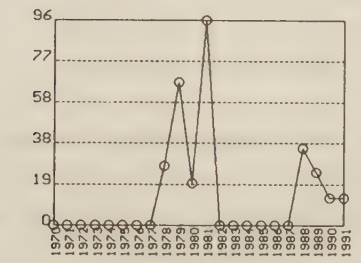
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common cuttlefish
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-20.75 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.52 % , Cumulative: 99.58 %



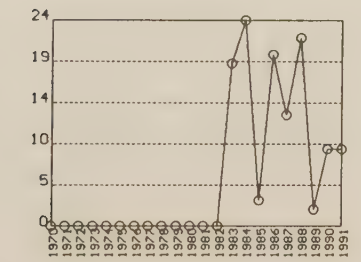
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cupped oysters nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 23.49 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.41 % , Cumulative: 99.99 %



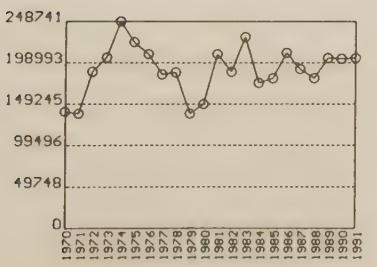
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Gastropods nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 17.80 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.01 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sea mussels nei
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

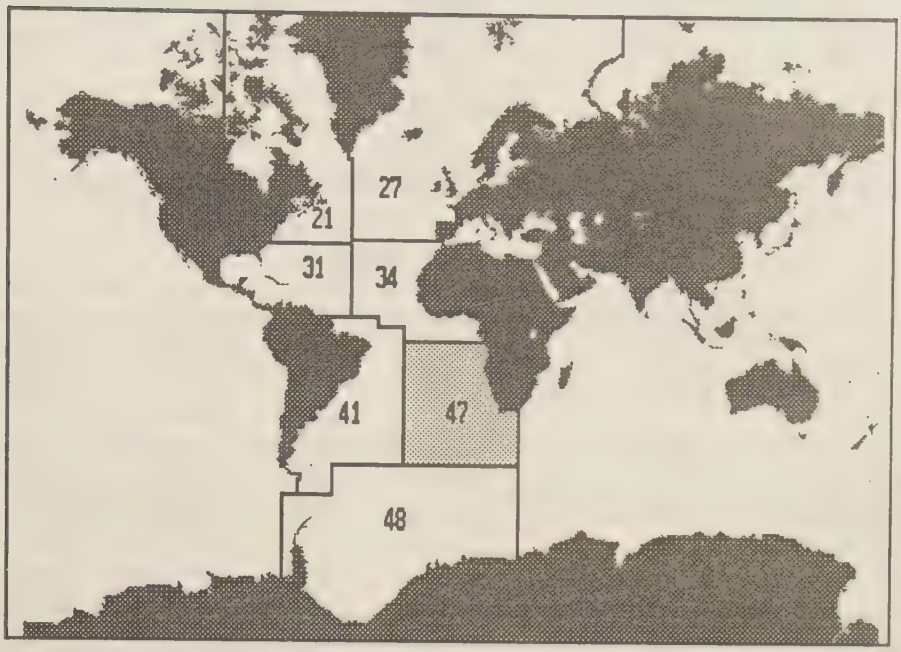
Fluctuation..... 17 %
Trend..... 50.41 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MOLLUSCS
Area.....ATLANTIC, EASTERN CENTRAL
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 1.79 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

6. ATLANTIC, SOUTHEAST (Area 47)



Major producers of fish, crustaceans and molluscs (1990 ranking): South Africa:35.22%, USSR:20.33%, Namibia:19.26%, Spain:12.62%, Angola:5.42%, Japan:2.49%, Germany NL:1.07%, Cuba:0.78%, Romania:0.76%, Other nei A:0.71%, Bulgaria:0.57%, Israel:0.41%, Korea Rep:0.32%, St Helena:0.04%.

Major species and percentages based on 1990 ranking: Cape hakes:26.06%, Cape horse mackerel:22.97%, Southern African anchovy:13.33%, Southern African pilchard:9.92%, Cunene horse mackerel:7.71%, Sardinellas nei:3.79%, Whitehead's round herring:2.97%, Snoek:1.63%, Chub mackerel:1.31%, Bigeye tuna:1.09%, Jack and horse mackerels nei:0.98%, Silver scabbardfish:0.98%, Albacore:0.97%, Swordfish:0.40%, Anglerfishes nei:0.39%, Cape monk:0.36%, Chokker squid:0.33%, Kingklip:0.30%, Cape rock lobster:0.29%, Largehead hairtail:0.28%, Sharks, rays, skates, etc:0.27%, Yellowfin tuna:0.24%, Croakers, drums nei:0.21%, Cape gurnard:0.20%, Deepwater rose shrimp:0.20%, Southern bluefin tuna:0.14%, Geryons nei:0.13%, Sea mussels nei:0.13%, Skates:0.12%, Panga seabream:0.12%, OTHER SPECIES:2.14%.

6.1 Production of diadromous fish: No catches have been reported.

6.2 Production of flounders, halibuts, soles, etc. (ISSCAAP GROUP 31).

Table 6.2.1

ATLANTIC, SOUTHEAST
Flounders, halibuts, soles, etc. (ISSCAAP GROUP 31), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Mud sole	1	808	33.4 %	Stable (-)
Flatfishes nei	2	530	21.9 %	Rising
West coast sole	3	516	21.3 %	Stable (-)
Tonguefishes nei	4	489	20.2 %	Rising
Southeast Atlantic soles nei	5	79	3.3 %	Rising
TOTAL FLOUNDERS, SOLES, ETC.		2422	100.0 %	Stable (+)

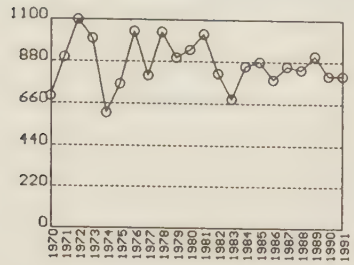
Proportion coming from declining catches.....	0.0 %
from stable catches.....	54.7 %
from rising catches.....	45.3 %

Major fishing countries ranked by 1990 production: South Africa:35.84%, Korea Rep:28.74%, Angola:13.34%, Spain:13.17%, Namibia:5.57%, USSR:3.26%, Israel:0.08%.

Table 6.2.2

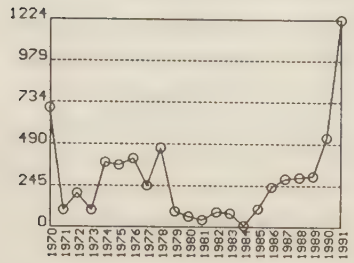
ATLANTIC, SOUTHEAST
Ranking order and proportions of flounders, halibuts, soles, etc., (ISSCAAP GROUP 31), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	-1980- CATCH (MT)	-1980- RANK AND PERCENT	-1970- CATCH (MT)	-1970- RANK AND PERCENT
Mud sole	1	943	1 43.8%	700	1 29.2%
Flatfishes nei	2	62	4 2.9%	700	2 29.2%
West coast sole	3	546	3 25.4%	400	4 16.7%
Tonguefishes nei	4	0	5 0.0%	200	5 8.3%
Southeast Atlantic soles nei	5	601	2 27.9%	400	3 16.7%
TOTALS		2152	100.0%	2400	100.0%



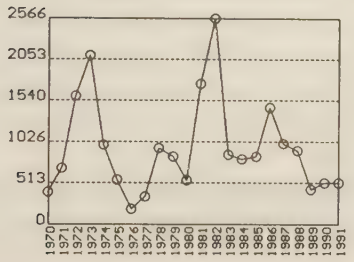
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mud sole
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 18 %
Trend..... -1.05 %
Rank..... 1 of 6 based on:1990
Percent to total..... 33.36 % , Cumulative: 33.36 %



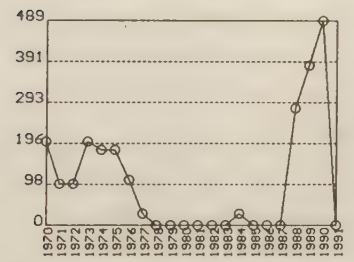
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Flatfishes nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 10.18 %
Rank..... 2 of 6 based on:1990
Percent to total..... 21.88 % , Cumulative: 55.24 %



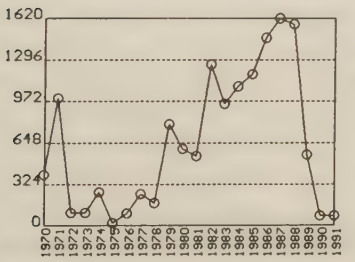
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....West coast sole
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... -2.79 %
Rank..... 3 of 6 based on:1990
Percent to total..... 21.30 % , Cumulative: 76.55 %



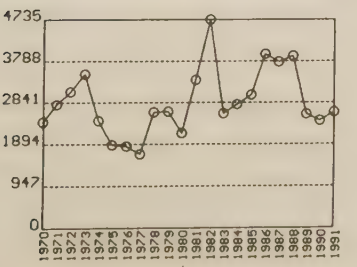
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tonguefishes nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 7.46 %
Rank..... 4 of 6 based on:1990
Percent to total..... 20.19 % , Cumulative: 96.74 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Southeast Atlantic soles nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 18.39 %
Rank..... 5 of 6 based on:1990
Percent to total..... 3.26 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL FLOUNDERS, SOLES, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 4.21 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

6.3 Production of cods, hakes, haddocks, etc. (ISSCAAP GROUP 32)

Table 6.3.1

ATLANTIC, SOUTHEAST
Cods, hakes, haddocks, etc.,
(ISSCAAP GROUP 32), ranked by 1990 production

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Cape hakes	1	392161	100.0 %	Declining
Benguela hake	2	79	0.0 %	Declining
Shallow-water Cape hake	3	17	0.0 %	Sharp rise
Gadiformes nei	4	0	0.0 %	Declining
TOTAL CODS, HAKES, ETC.		392257	100.0 %	Declining

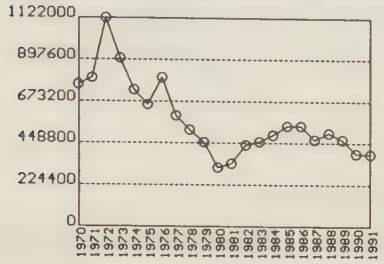
Proportion coming from declining catches.....	100.0 %
from stable catches.....	0.0 %
from rising catches.....	0.0 %

Major fishing countries ranked by 1990 production: Spain:39.51%, South Africa:34.46%, Namibia:14.02%, USSR:7.95%, Israel:0.98%, Cuba:0.96%, Romania:0.89%, Bulgaria:0.51%, Japan:0.42%, Germany NL:0.29%.

Table 6.3.2

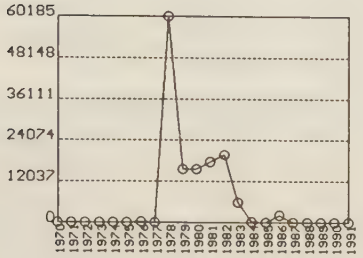
ATLANTIC, SOUTHEAST
Ranking order and proportions of cods, hakes, haddocks, etc.,
(ISSCAAP GROUP 32), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Cape hakes	1	318076	1 95.3%	765300	1 100.0%
Benguela hake	2	15626	2 4.7%	0	2 0.0%
Shallow-water Cape hake	3	0	4 0.0%	0	4 0.0%
Gadiformes nei	4	63	3 0.0%	0	3 0.0%
TOTALS		333765	100.0%	765300	100.0%



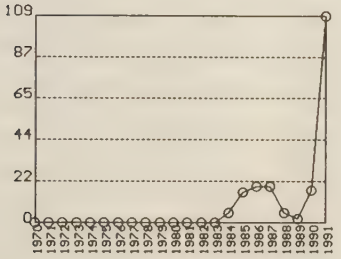
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cape hakes
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend.....-14.06 %
Rank..... 1 of 5 based on:1990
Percent to total..... 99.98 % , Cumulative: 99.98 %



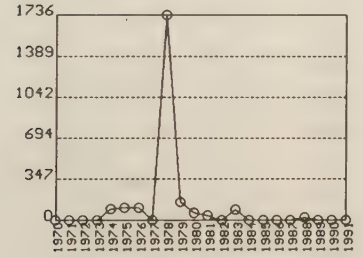
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Benguela hake
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... -7.13 %
Rank..... 2 of 5 based on:1990
Percent to total..... 0.02 % , Cumulative:100.00 %



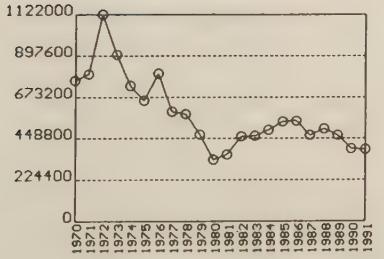
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Shallow-water Cape hake
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 0 %
Trend..... 76.00 %
Rank..... 3 of 5 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Gadiformes nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend.....-21.13 %
Rank..... 4 of 5 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CODS, HAKES, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend.....-13.99 %
Rank..... 5 of 5 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

6.4 Production of redfishes, basses, congers, etc. (ISSCAAP GROUP 33).

Table 6.4.1

ATLANTIC, SOUTHEAST
Redfishes, basses, congers, etc. (ISSCAAP GROUP 33), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Anglerfishes nei	1	5900	15.6 %	Rising
Cape monk	2	5413	14.3 %	Rising
Kingklip	3	4530	12.0 %	Stable (-)
Croakers, drums nei	4	3133	8.3 %	Declining
Cape gurnard	5	3075	8.1 %	Rising
Panga seabream	6	1800	4.8 %	Declining
Porgies, seabreams, nei	7	1479	3.9 %	Declining
Southern meagre (=Kob)	8	1471	3.9 %	Rising
Demersal percomorphs nei	9	1354	3.6 %	Declining
Largeeye dentex	10	1327	3.5 %	Declining
West African croakers	11	1287	3.4 %	Rising
John dory	12	1193	3.2 %	Stable (-)
Cape redfish	13	1171	3.1 %	Rising
Bigeye grunt	14	711	1.9 %	Rising
Cape bonnetmouth	15	568	1.5 %	Sharp rise
Geelbek croaker	16	498	1.3 %	Rising
Alfonsinos	17	469	1.2 %	Rising
Dentex nei	18	466	1.2 %	Sharp decl
Grunts, sweetlips, nei	19	308	0.8 %	Stable (-)
Groupers nei	20	300	0.8 %	Stable (+)
White stumpnose	21	291	0.8 %	Sharp rise
Sea catfishes nei	22	235	0.6 %	Rising
Angolan dentex	23	224	0.6 %	Declining
Stumpnose,dageraad breams,nei	24	183	0.5 %	Rising
Gurnards, searobins nei	25	179	0.5 %	Rising
Red steenbras	26	105	0.3 %	Sharp rise
Triggerfishes, durgons	27	53	0.1 %	Rising
White steenbras	28	37	0.1 %	Stable (+)
Conger eels nei	29	36	0.1 %	Declining
Carpenter seabream	30	20	0.1 %	Rising
Pargo breams, nei	31	18	0.1 %	Rising
Wreckfish	32	13	0.0 %	Declining
Blackbelly rosefish(Jacopever)	33	10	0.0 %	Sharp rise
Bigeyes nei	34	4	0.0 %	Rising
TOTAL REDFISHES, BASSES, ETC.		37861	100.0 %	Declining

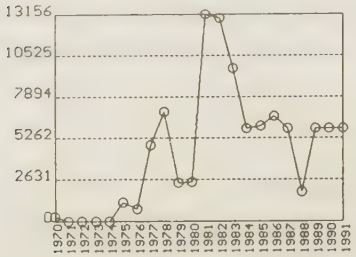
Proportion coming from declining catches.....	26.0 %
from stable catches.....	16.8 %
from rising catches.....	57.2 %

Major fishing countries ranked by 1990 production: South Africa:46.04%, Spain:19.28%, USSR:9.84%, Japan:7.77%, Korea Rep:7.38%, Angola:6.07%, Romania:1.55%, Namibia:1.08%, Cuba:0.63%, Israel:0.17%, Bulgaria:0.10%, St Helena:0.09%.

Table 6.4.2

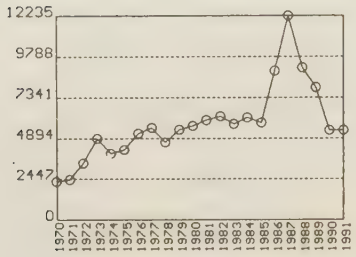
ATLANTIC, SOUTHEAST
Ranking order and proportions of redfishes, basses, congers, etc., (ISSCAAP GROUP 33), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-		CATCH (MT) -1970-	RANK AND PERCENT -1970-	
Anglerfishes nei	1	2492	11	3.1%	300	18	0.5%
Cape monk	2	5672	6	6.9%	2300	8	3.5%
Kingklip	3	10317	2	12.6%	3600	6	5.5%
Croakers, drums nei	4	2545	9	3.1%	2400	7	3.7%
Cape gurnard	5	541	19	0.7%	0	28	0.0%
Panga seabream	6	1613	14	2.0%	7300	5	11.2%
Porgies, seabreams, nei	7	4444	7	5.4%	9400	3	14.4%
Southern meagre (=Kob)	8	1018	15	1.3%	500	16	0.8%
Demersal percomorphs nei	9	6056	5	7.4%	13800	1	21.1%
Largeeye dentex	10	8408	4	10.3%	10500	2	16.1%
West African croakers	11	8469	3	10.4%	800	11	1.2%
John dory	12	2107	13	2.6%	700	12	1.1%
Cape redfish	13	830	17	1.0%	700	13	1.1%
Bigeye grunt	14	2144	12	2.6%	300	19	0.5%
Cape bonnetmouth	15	0	56	0.0%	0	55	0.0%
Geelbek croaker	16	221	24	0.3%	0	27	0.0%
Alfonsinos	17	0	52	0.0%	0	51	0.0%
Dentex nei	18	249	21	0.3%	8300	4	12.7%
Grunts, sweetlips, nei	19	2648	8	3.2%	600	15	0.9%
Groupers nei	20	197	26	0.2%	400	17	0.6%
White stumpnose	21	4	40	0.0%	0	39	0.0%
Sea catfishes nei	22	32	34	0.0%	0	33	0.0%
Angolan dentex	23	2527	10	3.1%	0	32	0.0%
Stumpnose,dageraad breams,nei	24	95	32	0.1%	0	31	0.0%
Gurnards, searobins nei	25	169	27	0.2%	0	36	0.0%
Red steenbras	26	0	43	0.0%	0	42	0.0%
Triggerfishes, durgons	27	0	44	0.0%	0	43	0.0%
White steenbras	28	103	31	0.1%	100	25	0.2%
Conger eels nei	29	135	30	0.2%	200	21	0.3%
Carpenter seabream	30	234	22	0.3%	100	22	0.2%
Pargo breams, nei	31	0	48	0.0%	0	47	0.0%
Wreckfish	32	1	41	0.0%	0	40	0.0%
Blackbelly rosefish(Jacopever)	33	0	54	0.0%	0	53	0.0%
Bigeyes nei	34	1	42	0.0%	0	41	0.0%
TOTALS		81710		100.0%	65300		100.0%



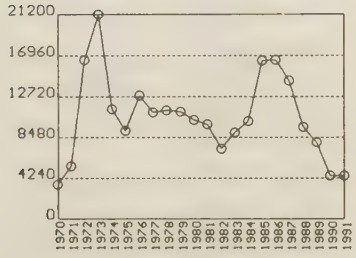
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Anglerfishes nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 26.64 %
Rank..... 1 of 12 based on:1990
Percent to total..... 15.58 % , Cumulative: 15.58 %



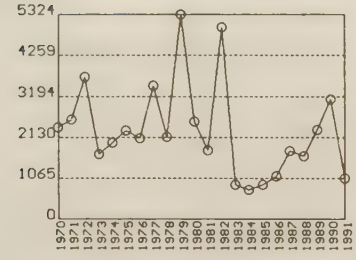
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cape monk
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 15.14 %
Rank..... 2 of 12 based on:1990
Percent to total..... 14.30 % , Cumulative: 29.88 %



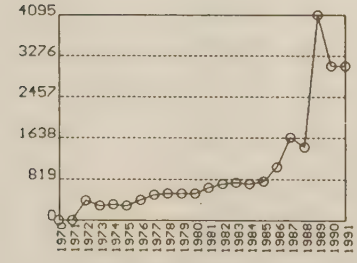
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Kingklip
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... -3.68 %
Rank..... 3 of 12 based on:1990
Percent to total..... 11.96 % , Cumulative: 41.85 %



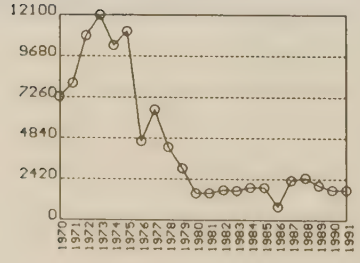
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Croakers, drums nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 20 %
Trend..... -8.17 %
Rank..... 4 of 12 based on:1990
Percent to total..... 8.28 % , Cumulative: 50.12 %



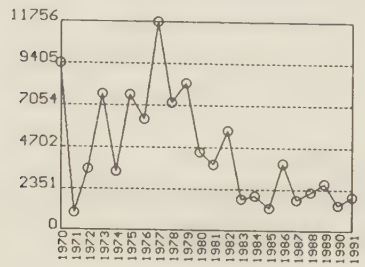
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cape gurnard
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 46.66 %
Rank..... 5 of 12 based on:1990
Percent to total..... 8.12 % , Cumulative: 58.24 %



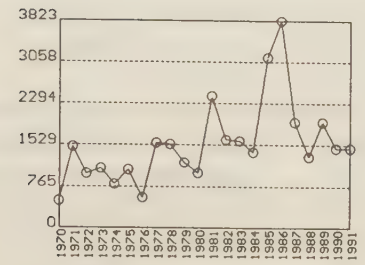
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Panga seabream
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-35.59 %
Rank..... 6 of 12 based on:1990
Percent to total..... 4.75 % , Cumulative: 63.00 %



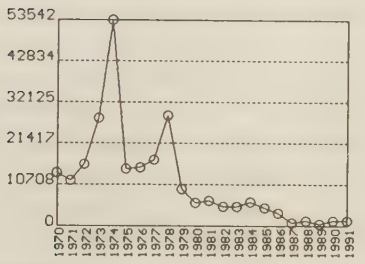
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Porgies, seabreams, nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 21 %
Trend.....-19.91 %
Rank..... 7 of 12 based on:1990
Percent to total..... 3.91 % , Cumulative: 66.90 %



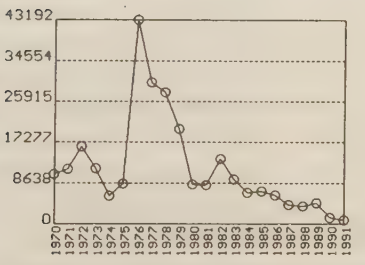
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Southern meagre (=Kob)
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 13.97 %
Rank..... 8 of 12 based on:1990
Percent to total..... 3.89 % , Cumulative: 70.79 %



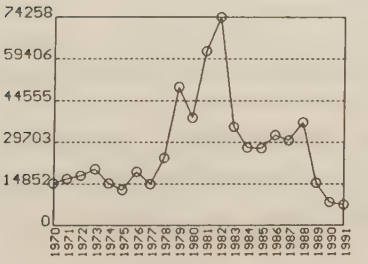
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Demersal percomorphs nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-38.69 %
Rank..... 9 of 12 based on:1990
Percent to total..... 3.58 % , Cumulative: 74.36 %



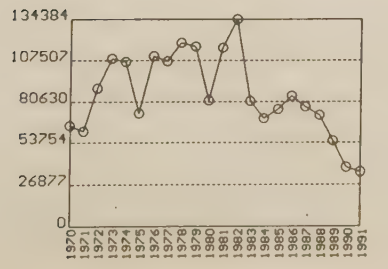
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Largeeye dentex
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend.....-22.95 %
Rank..... 10 of 12 based on:1990
Percent to total..... 3.50 % , Cumulative: 77.87 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER REDFISHES, BASSES, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 4.45 %
Rank..... 11 of 12 based on:1990
Percent to total..... 22.13 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL REDFISHES, BASSES, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... -7.31 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

6.5 Production of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34).

Table 6.5.1

ATLANTIC, SOUTHEAST
Jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Cape horse mackerel	1	345646	71.5 %	Rising
Cunene horse mackerel	2	115977	24.0 %	Declining
Jack and horse mackerels nei	3	14777	3.1 %	Rising
Mullets nei	4	1400	0.3 %	Stable (-)
Atlantic pomfret	5	1254	0.3 %	Rising
Bluefish	6	820	0.2 %	Rising
Threadfins, tasselfishes nei	7	806	0.2 %	Rising
Carangids nei	8	677	0.1 %	Declining
Yellowtail amberjack	9	612	0.1 %	Stable (+)
Lanternfish	10	571	0.1 %	Declining
Atlantic bumper	11	177	0.0 %	Rising
Butterfishes, silver pomfrets	12	146	0.0 %	Sharp rise
Crevalle jack	13	124	0.0 %	Rising
Pelagic percomorphs nei	14	121	0.0 %	Declining
Barracudas	15	33	0.0 %	Rising
Jacks, crevalles, nei	16	13	0.0 %	Declining
Pompanos	17	2	0.0 %	Sharp rise
False scad	18	0	0.0 %	Rising
Amberjacks nei	19	0	0.0 %	Stable (+)
Common dolphinfish	20	0	0.0 %	Sharp rise
Scads	21	0	0.0 %	Sharp decl
Blue butterfish	22	0	0.0 %	Declining
Leerfish(=Garrick)	23	0	0.0 %	Rising
TOTAL JACKS, MULLETS, ETC.		483156	100.0 %	Rising

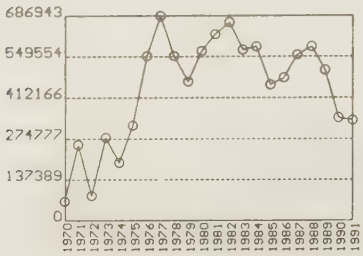
Proportion coming from declining catches.....	24.3 %
from stable catches.....	0.4 %
from rising catches.....	75.3 %

Major fishing countries ranked by 1990 production: USSR:45.30%, Namibia:18.47%, Angola:13.59%, South Africa:11.31%, Germany NL:3.06%, Spain:2.37%, Cuba:1.60%, Romania:1.49%, Bulgaria:1.34%, Japan:1.31%, Israel:0.16%.

Table 6.5.2

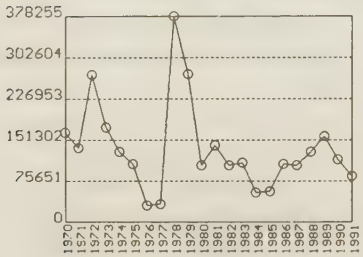
ATLANTIC, SOUTHEAST
Ranking order and proportions of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Cape horse mackerel	1	570091	1 80.4%	64900	2 25.6%
Cunene horse mackerel	2	104915	2 14.8%	165700	1 65.3%
Jack and horse mackerels nei	3	19951	3 2.8%	1600	5 0.6%
Mullets nei	4	2357	6 0.3%	1600	4 0.6%
Atlantic pomfret	5	472	10 0.1%	0	13 0.0%
Bluefish	6	0	21 0.0%	400	8 0.2%
Threadfins, tasselfishes nei	7	1712	8 0.2%	0	17 0.0%
Carangids nei	8	2382	5 0.3%	0	14 0.0%
Yellowtail amberjack	9	461	11 0.1%	400	7 0.2%
Lanternfish	10	40	15 0.0%	18200	3 7.2%
Atlantic bumper	11	264	12 0.0%	100	10 0.0%
Butterfishes, silver pomfrets	12	0	23 0.0%	0	22 0.0%
Crevalle jack	13	1046	9 0.2%	0	11 0.0%
Pelagic percomorphs nei	14	1713	7 0.2%	600	6 0.2%
Barracudas	15	1	19 0.0%	0	18 0.0%
Jacks, crevalles, nei	16	5	18 0.0%	200	9 0.1%
Pompanos	17	0	22 0.0%	0	21 0.0%
False scad	18	28	17 0.0%	0	16 0.0%
Amberjacks nei	19	35	16 0.0%	0	15 0.0%
Common dolphinfish	20	0	20 0.0%	0	19 0.0%
Scads	21	188	13 0.0%	0	12 0.0%
Blue butterfish	22	3360	4 0.5%	0	20 0.0%
Leerfish(=Garrick)	23	52	14 0.0%	0	23 0.0%
TOTALS		709073	100.0%	253700	100.0%



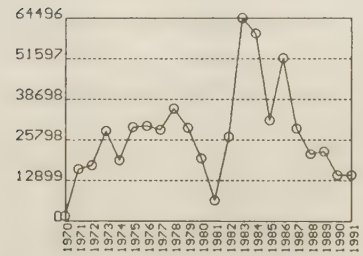
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cape horse mackerel
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 11.07 %
Rank..... 1 of 12 based on:1990
Percent to total..... 71.54 % , Cumulative: 71.54 %



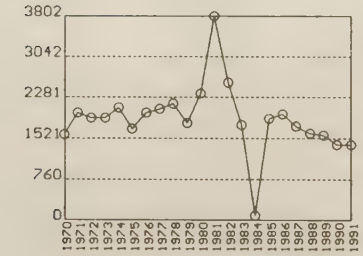
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cunene horse mackerel
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... -9.34 %
Rank..... 2 of 12 based on:1990
Percent to total..... 24.00 % , Cumulative: 95.54 %



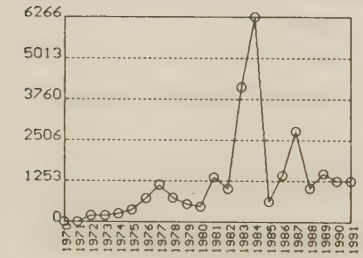
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Jack and horse mackerels nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 6.75 %
Rank..... 3 of 12 based on:1990
Percent to total..... 3.06 % , Cumulative: 98.60 %



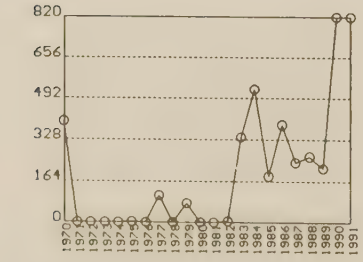
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mullets nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... -4.17 %
Rank..... 4 of 12 based on:1990
Percent to total..... 0.29 % , Cumulative: 98.89 %



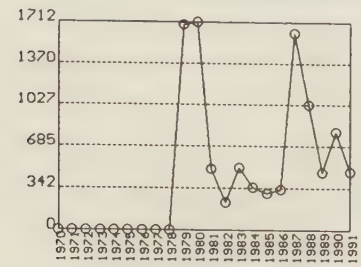
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic pomfret
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 29.14 %
Rank..... 5 of 12 based on:1990
Percent to total..... 0.26 % , Cumulative: 99.15 %



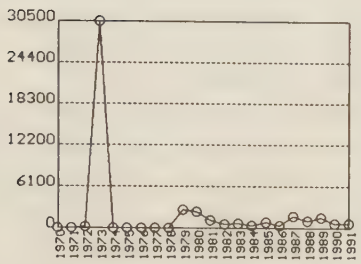
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bluefish
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 44.93 %
Rank..... 6 of 12 based on:1990
Percent to total..... 0.17 % , Cumulative: 99.32 %



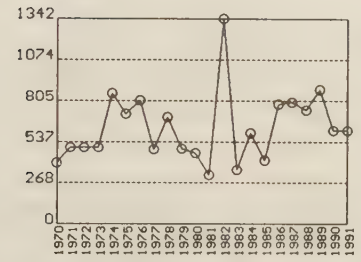
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Threadfins, tasselfishes nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 32.77 %
Rank..... 7 of 12 based on:1990
Percent to total..... 0.17 % , Cumulative: 99.49 %



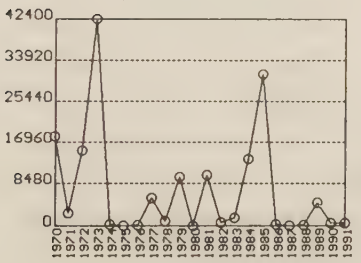
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Carangids nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-34.11 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.14 % , Cumulative: 99.63 %



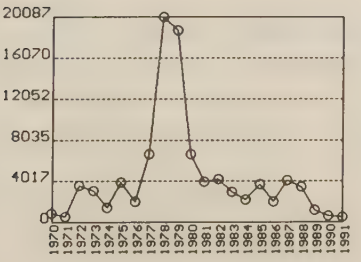
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Yellowtail amberjack
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 20 %
Trend..... 4.56 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.13 % , Cumulative: 99.75 %



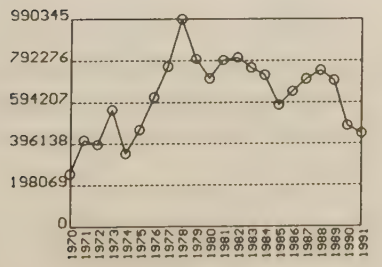
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Lanternfish
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 15 %
Trend.....-24.71 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.12 % , Cumulative: 99.87 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER JACKS, MULLETS, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... -7.93 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.14 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL JACKS, MULLETS, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 5.76 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

6.6 Production of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35).

Table 6.6.1

ATLANTIC, SOUTHEAST
Herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Southern African anchovy	1	200605	44.4 %	Stable (-)
Southern African pilchard	2	149279	33.1 %	Declining
Sardinellas nei	3	56970	12.6 %	Stable (+)
Whitehead's round herring	4	44710	9.9 %	Rising
Longfin bonefish	5	24	0.0 %	Declining
Anchovies nei	6	0	0.0 %	Declining
Clupeoids nei	7	0	0.0 %	Rising
TOTAL HERRINGS, SARDINES, ETC.		451588	100.0 %	Declining

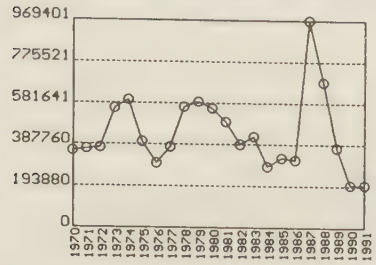
Proportion coming from declining catches.....	33.1 %
from stable catches.....	57.0 %
from rising catches.....	9.9 %

Major fishing countries ranked by 1990 production: South Africa:55.73%, Namibia:31.65%, USSR:9.88%, Angola:2.64%, Israel:0.10%, Romania:0.01%.

Table 6.6.2

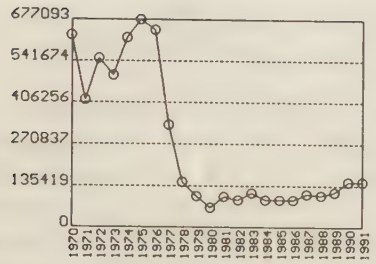
ATLANTIC, SOUTHEAST
Ranking order and proportions of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Southern African anchovy	1	559255	1 64.9%	358300	2 33.3%
Southern African pilchard	2	62981	3 7.3%	627400	1 58.2%
Sardinellas nei	3	205381	2 23.8%	67300	3 6.3%
Whitehead's round herring	4	14132	5 1.6%	23900	4 2.2%
Longfin bonefish	5	0	7 0.0%	0	7 0.0%
Anchovies nei	6	19932	4 2.3%	300	5 0.0%
Clupeoids nei	7	190	6 0.0%	0	6 0.0%
TOTALS		861871	100.0%	1077200	100.0%



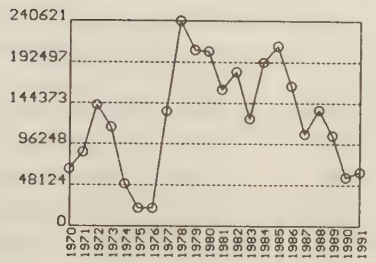
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Southern African anchovy
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... -1.11 %
Rank..... 1 of 6 based on:1990
Percent to total..... 44.42 % , Cumulative: 44.42 %



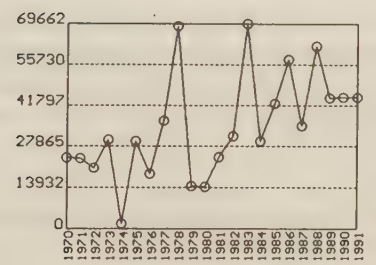
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Southern African pilchard
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend.....-35.84 %
Rank..... 2 of 6 based on:1990
Percent to total..... 33.06 % , Cumulative: 77.48 %



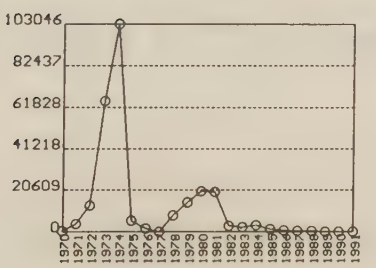
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sardinellas nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 4.34 %
Rank..... 3 of 6 based on:1990
Percent to total..... 12.62 % , Cumulative: 90.09 %



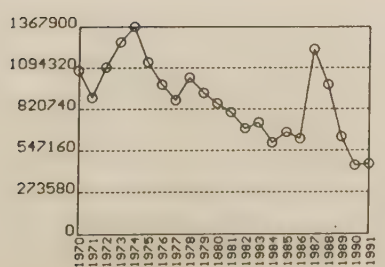
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Whitehead's round herring
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 20 %
Trend..... 15.23 %
Rank..... 4 of 6 based on:1990
Percent to total..... 9.90 % , Cumulative: 99.99 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 4 %
Trend.....-44.03 %
Rank..... 5 of 6 based on:1990
Percent to total..... 0.01 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-10.77 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

6.7 Production of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36).

Table 6.7.1

ATLANTIC, SOUTHEAST
Tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Bigeye tuna	1	16396	36.8 %	Rising
Albacore	2	14652	32.9 %	Stable (+)
Swordfish	3	6021	13.5 %	Rising
Yellowfin tuna	4	3636	8.2 %	Stable (+)
Southern bluefin tuna	5	2085	4.7 %	Declining
Atlantic blue marlin	6	600	1.4 %	Rising
Atlantic black skipjack	7	285	0.6 %	Declining
Atlantic bonito	8	276	0.6 %	Stable (-)
Tuna-like fishes nei	9	200	0.5 %	Declining
Marlins,sailfishes,spearfishes	10	171	0.4 %	Sharp rise
Skipjack tuna	11	106	0.2 %	Declining
Atlantic white marlin	12	54	0.1 %	Declining
Frigate and bullet tunas	13	35	0.1 %	Declining
Atlantic sailfish	14	29	0.1 %	Declining
Wahoo	15	18	0.0 %	Rising
Northern bluefin tuna	16	3	0.0 %	Sharp rise
West African Spanish mackerel	17	0	0.0 %	Declining
TOTAL TUNAS, BONITOS, ETC.		44567	100.0 %	Stable (+)

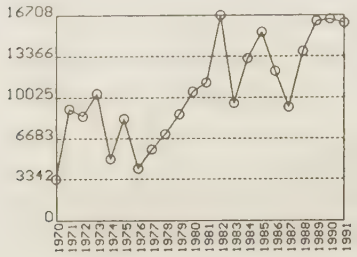
Proportion coming from declining catches.....	6.3 %
from stable catches.....	41.7 %
from rising catches.....	52.1 %

Major fishing countries ranked by 1990 production: Japan:53.07%, Other nei A:23.91%, South Africa:10.85%, Spain:7.96%, Angola:1.80%, Korea Rep:1.76%, St Helena:0.29%, USSR:0.28%, Cuba:0.06%, Other nei B:0.01%.

Table 6.7.2

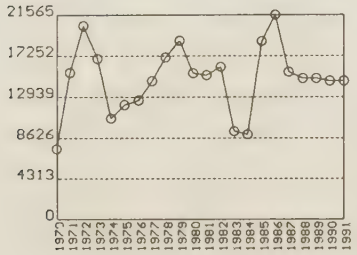
ATLANTIC, SOUTHEAST
Ranking order and proportions of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Bigeye tuna	1	10480	2 23.6%	3375	4 12.8%
Albacore	2	15456	1 34.8%	7524	1 28.4%
Swordfish	3	1356	7 3.1%	317	9 1.2%
Yellowfin tuna	4	1592	6 3.6%	1829	5 6.9%
Southern bluefin tuna	5	8608	3 19.4%	4016	3 15.2%
Atlantic blue marlin	6	118	10 0.3%	226	11 0.9%
Atlantic black skipjack	7	1806	5 4.1%	6094	2 23.0%
Atlantic bonito	8	516	8 1.2%	870	7 3.3%
Tuna-like fishes nei	9	45	12 0.1%	262	10 1.0%
Marlins,sailfishes,spearfishes	10	0	16 0.0%	0	16 0.0%
Skipjack tuna	11	4001	4 9.0%	1060	6 4.0%
Atlantic white marlin	12	31	13 0.1%	181	13 0.7%
Frigate and bullet tunas	13	311	9 0.7%	521	8 2.0%
Atlantic sailfish	14	23	14 0.1%	199	12 0.8%
Wahoo	15	10	15 0.0%	0	15 0.0%
Northern bluefin tuna	16	0	17 0.0%	0	17 0.0%
West African Spanish mackerel	17	70	11 0.2%	0	14 0.0%
TOTALS		44423	100.0%	26474	100.0%



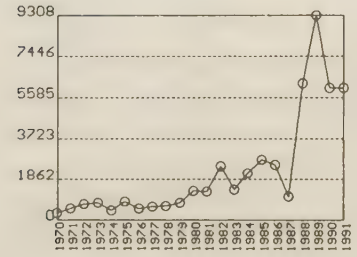
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bigeye tuna
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 16.50 %
Rank..... 1 of 12 based on:1990
Percent to total..... 36.79 % , Cumulative: 36.79 %



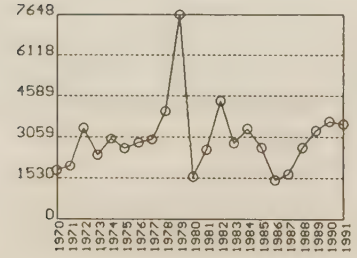
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Albacore
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 1.95 %
Rank..... 2 of 12 based on:1990
Percent to total..... 32.88 % , Cumulative: 69.67 %



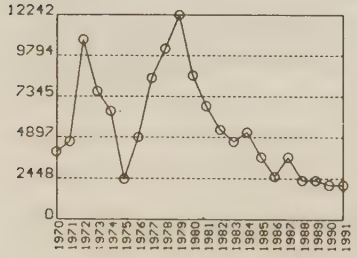
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Swordfish
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 46.10 %
Rank..... 3 of 12 based on:1990
Percent to total..... 13.51 % , Cumulative: 83.18 %



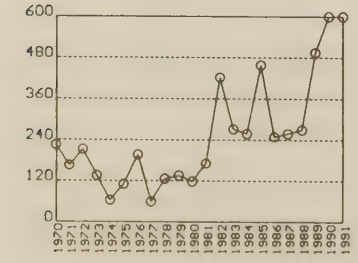
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Yellowfin tuna
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... 1.69 %
Rank..... 4 of 12 based on:1990
Percent to total..... 8.16 % , Cumulative: 91.33 %



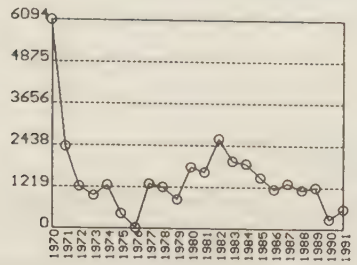
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Southern bluefin tuna
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-15.40 %
Rank..... 5 of 12 based on:1990
Percent to total..... 4.68 % , Cumulative: 96.01 %



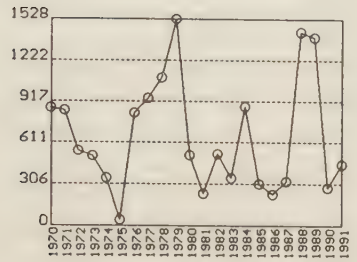
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic blue marlin
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 25.11 %
Rank..... 6 of 12 based on:1990
Percent to total..... 1.35 % , Cumulative: 97.36 %



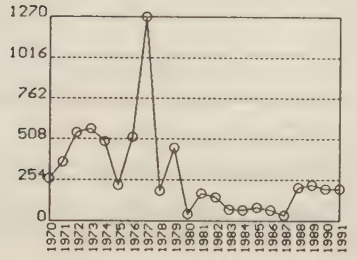
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic black skipjack
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-15.51 %
Rank..... 7 of 12 based on:1990
Percent to total..... 0.64 % , Cumulative: 98.00 %



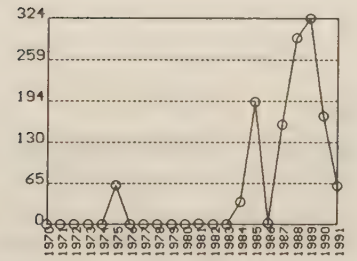
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic bonito
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... -0.58 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.62 % , Cumulative: 98.62 %



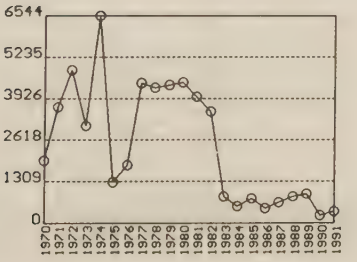
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tuna-like fishes nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend.....-24.93 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.45 % , Cumulative: 99.07 %



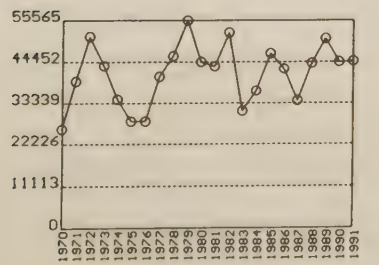
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marlins,sailfishes,spearfishes
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 59.53 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.38 % , Cumulative: 99.45 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER TUNAS, BONITOS, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 12 %
Trend.....-27.48 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.56 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL TUNAS, BONITOS, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 3.30 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

6.8 Production of mackerels, snoeks, cutlassfishes, etc. (ISSCAAP GROUP 37).

Table 6.8.1

ATLANTIC, SOUTHEAST
Mackerels,snoeks,etc. (ISSCAAP GROUP 37), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Snoek	1	24537	38.8 %	Rising
Chub mackerel	2	19653	31.1 %	Declining
Silver scabbardfish	3	14743	23.3 %	Rising
Largehead hairtail	4	4270	6.8 %	Declining
Mackerel-like fishes nei	5	0	0.0 %	Stable (-)
TOTAL MACKERELS, SNOEKS, ETC.		63203	100.0 %	Declining

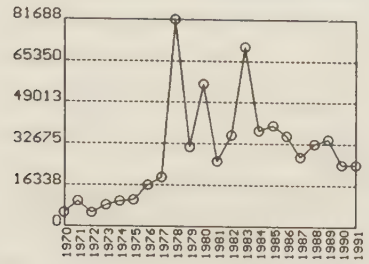
Proportion coming from declining catches.....	37.9 %
from stable catches.....	0.0 %
from rising catches.....	62.2 %

Major fishing countries ranked by 1990 production: South Africa:78.76%, USSR:10.21%, Spain:6.24%, Namibia:2.46%, Israel:1.54%, Germany NL:0.28%, Japan:0.25%, Romania:0.18%, Korea Rep:0.05%, St Helena:0.04%.

Table 6.8.2

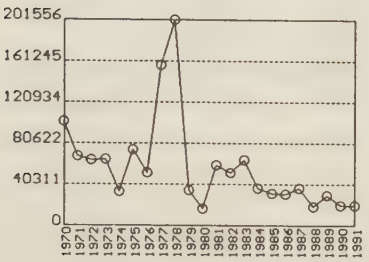
ATLANTIC, SOUTHEAST
Ranking order and proportions of mackerels,snoeks,etc., in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Snoek	1	56238	1 62.3%	5400	3 4.6%
Chub mackerel	2	16352	3 18.1%	101900	1 86.0%
Silver scabbardfish	3	946	4 1.1%	0	4 0.0%
Largehead hairtail	4	16559	2 18.3%	11200	2 9.5%
Mackerel-like fishes nei	5	209	5 0.2%	0	5 0.0%
TOTALS		90304	100.0%	118500	100.0%



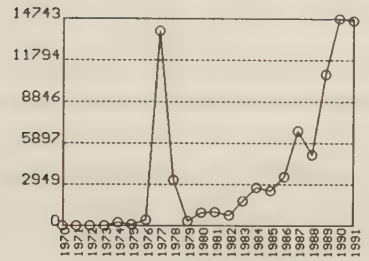
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Snoek
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 15.53 %
Rank..... 1 of 6 based on:1990
Percent to total..... 38.82 % , Cumulative: 38.82 %



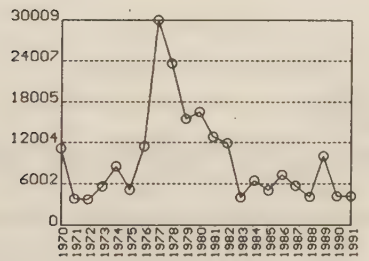
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Chub mackerel
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-20.51 %
Rank..... 2 of 6 based on:1990
Percent to total..... 31.10 % , Cumulative: 69.92 %



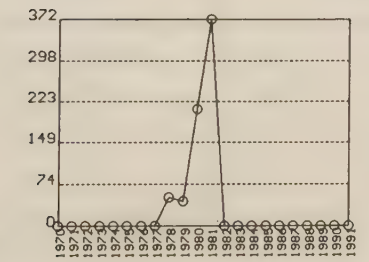
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Silver scabbardfish
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 47.10 %
Rank..... 3 of 6 based on:1990
Percent to total..... 23.33 % , Cumulative: 93.24 %



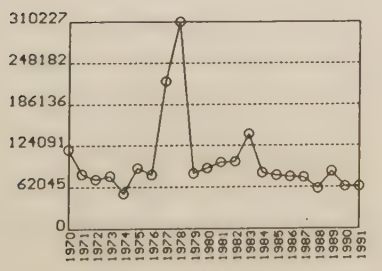
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Largehead hairtail
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... -8.25 %
Rank..... 4 of 6 based on:1990
Percent to total..... 6.76 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mackerel-like fishes nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... -1.44 %
Rank..... 5 of 6 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MACKERELS, SNOEKS, ETC.
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... -6.25 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

6.9 Production of sharks, rays, chimaeras, etc. (ISSCAAP GROUP 38).

Table 6.9.1

ATLANTIC, SOUTHEAST
Sharks, rays, etc. (ISSCAAP GROUP 38), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Sharks, rays, skates, etc	1	3997	56.7 %	Declining
Skates	2	1858	26.3 %	Rising
Skates and rays, nei	3	653	9.3 %	Rising
Cape elephantfish	4	546	7.7 %	Rising
Angelsharks, sand devils	5	0	0.0 %	Sharp rise
TOT SPECIES		7054	100.0 %	Stable (+)

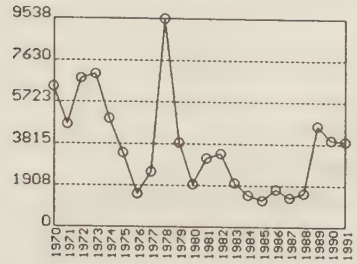
Proportion coming from declining catches.....	56.7 %
from stable catches.....	0.0 %
from rising catches.....	43.3 %

Major fishing countries ranked by 1990 production: Spain:37.13%, South Africa:34.41%, Japan:10.12%, USSR:9.40%, Angola:7.09%, Other nei A:1.13%, Korea Rep:0.52%, Romania:0.20%.

Table 6.9.2

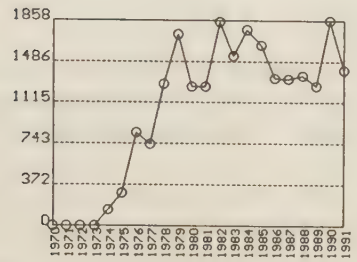
ATLANTIC, SOUTHEAST
Ranking order and proportions of sharks,rays,etc., in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Sharks, rays, skates, etc	1	1959	1 40.4%	6400	1 94.1%
Skates	2	1259	3 26.0%	0	3 0.0%
Skates and rays, nei	3	1394	2 28.8%	400	2 5.9%
Cape elephantfish	4	237	4 4.9%	0	4 0.0%
Angelsharks, sand devils	5	0	5 0.0%	0	5 0.0%
TOTALS		4849	100.0%	6800	100.0%



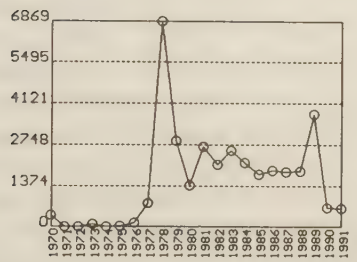
Year range.....1970-1991
Country.....TOT COUNTRIES
Species.....Sharks, rays, skates, etc
Area.....TOT AREAS
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-15.89 %
Rank..... 1 of 6 based on:1990
Percent to total..... 56.66 % , Cumulative: 56.66 %



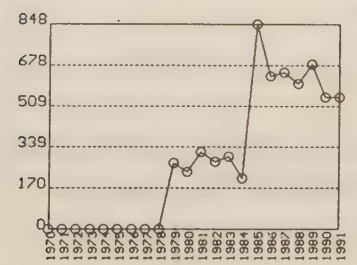
Year range.....1970-1991
Country.....TOT COUNTRIES
Species.....Skates
Area.....TOT AREAS
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 28.41 %
Rank..... 2 of 6 based on:1990
Percent to total..... 26.34 % , Cumulative: 83.00 %



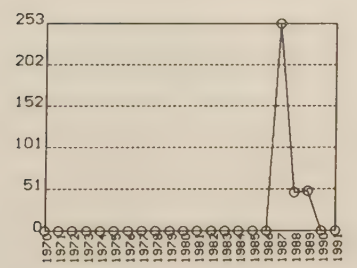
Year range.....1970-1991
Country.....TOT COUNTRIES
Species.....Skates and rays, nei
Area.....TOT AREAS
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 19.40 %
Rank..... 3 of 6 based on:1990
Percent to total..... 9.26 % , Cumulative: 92.26 %



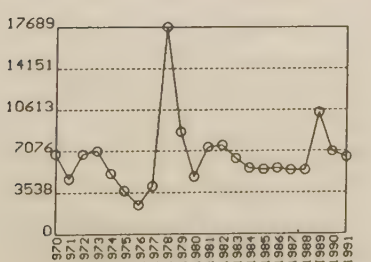
Year range.....1970-1991
Country.....TOT COUNTRIES
Species.....Cape elephantfish
Area.....TOT AREAS
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 48.69 %
Rank..... 4 of 6 based on:1990
Percent to total..... 7.74 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....TOT COUNTRIES
Species.....Angelsharks, sand devils
Area.....TOT AREAS
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 60.10 %
Rank..... 5 of 6 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....TOT COUNTRIES
Species.....TOT SPECIES
Area.....TOT AREAS
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 2.40 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

6.10 Production of crustaceans (ISSCAAP GROUPS 41-47).

Table 6.10.1

ATLANTIC, SOUTHEAST
Crustaceans (ISSCAAP GROUPS 41-47), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Cape rock lobster	1	4306	34.8 %	Declining
Deepwater rose shrimp	2	3000	24.2 %	Rising
Geryons nei	3	1963	15.8 %	Rising
Striped red shrimp	4	1500	12.1 %	Sharp rise
South coast spiny lobster	5	1042	8.4 %	Rising
Tristan da Cunha rock lobster	6	451	3.6 %	Declining
Natantian decapods nei	7	124	1.0 %	Declining
Marine crabs nei	8	4	0.0 %	Declining
Common prawn	9	0	0.0 %	Sharp rise
Edible crab	10	0	0.0 %	Rising
Caramote prawn	11	0	0.0 %	Rising
Tropical spiny lobsters nei	12	0	0.0 %	Rising
Marine crustaceans nei	13	0	0.0 %	Declining
Slipper lobsters	14	0	0.0 %	Rising
TOTAL CRUSTACEANS		12390	100.0 %	Stable (-)

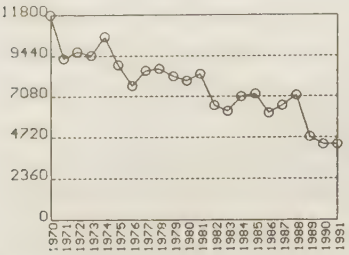
Proportion coming from declining catches.....	39.4 %
from stable catches.....	0.0 %
from rising catches.....	60.6 %

Major fishing countries ranked by 1990 production: South Africa:39.00%, Spain:36.32%, Japan:15.85%, Namibia:4.16%, St Helena:3.64%, Angola:0.98%, Korea Rep:0.05%.

Table 6.10.2

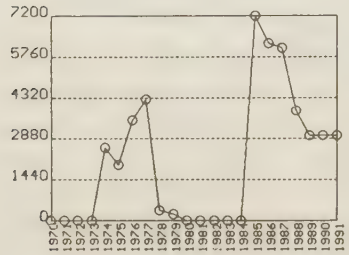
ATLANTIC, SOUTHEAST
Ranking order and proportions of crustaceans (ISSCAAP GROUPS 41-47), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Cape rock lobster	1	7992	1 53.3%	11800	1 70.7%
Deepwater rose shrimp	2	0	7 0.0%	0	6 0.0%
Geryons nei	3	5834	2 38.9%	0	7 0.0%
Striped red shrimp	4	0	8 0.0%	0	14 0.0%
South coast spiny lobster	5	193	5 1.3%	0	4 0.0%
Tristan da Cunha rock lobster	6	433	4 2.9%	600	3 3.6%
Natantian decapods nei	7	533	3 3.6%	4300	2 25.8%
Marine crabs nei	8	9	6 0.1%	0	5 0.0%
Common prawn	9	0	14 0.0%	0	13 0.0%
Edible crab	10	0	9 0.0%	0	8 0.0%
Caramote prawn	11	0	10 0.0%	0	9 0.0%
Tropical spiny lobsters nei	12	0	11 0.0%	0	10 0.0%
Marine crustaceans nei	13	0	12 0.0%	0	11 0.0%
Slipper lobsters	14	0	13 0.0%	0	12 0.0%
TOTALS		14994	100.0%	16700	100.0%



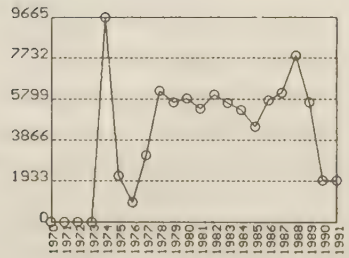
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cape rock lobster
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-12.44 %
Rank..... 1 of 12 based on:1990
Percent to total..... 34.75 % , Cumulative: 34.75 %



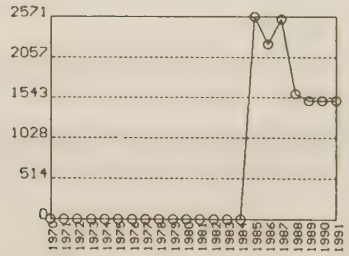
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Deepwater rose shrimp
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 30.95 %
Rank..... 2 of 12 based on:1990
Percent to total..... 24.21 % , Cumulative: 58.97 %



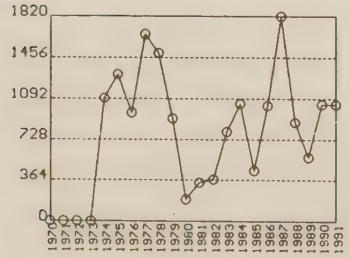
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Geryons nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 16.01 %
Rank..... 3 of 12 based on:1990
Percent to total..... 15.84 % , Cumulative: 74.81 %



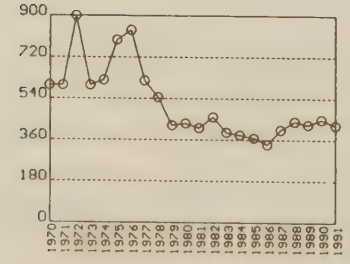
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Striped red shrimp
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 61.52 %
Rank..... 4 of 12 based on:1990
Percent to total..... 12.11 % , Cumulative: 86.92 %



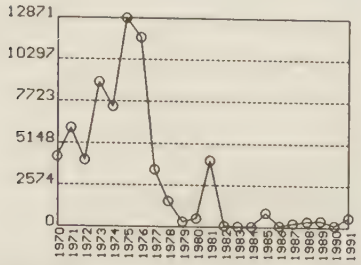
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....South coast spiny lobster
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 14.54 %
Rank..... 5 of 12 based on:1990
Percent to total..... 8.41 % , Cumulative: 95.33 %



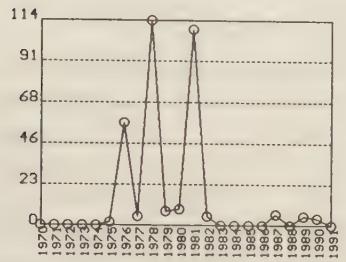
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tristan da Cunha rock lobster
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend.....-11.82 %
Rank..... 6 of 12 based on:1990
Percent to total..... 3.64 % , Cumulative: 98.97 %



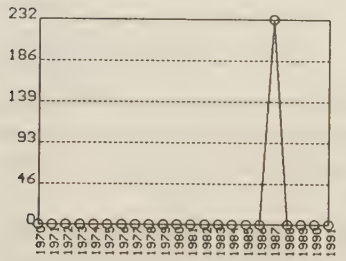
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Natantian decapods nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 9 %
Trend.....-47.20 %
Rank..... 7 of 12 based on:1990
Percent to total..... 1.00 % , Cumulative: 99.97 %



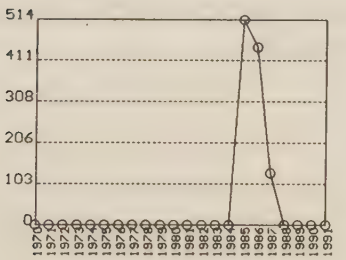
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marine crabs nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 18 %
Trend.....-10.87 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.03 % , Cumulative:100.00 %



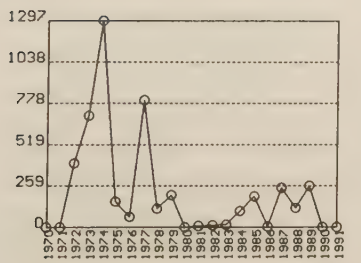
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common prawn
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 56.52 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



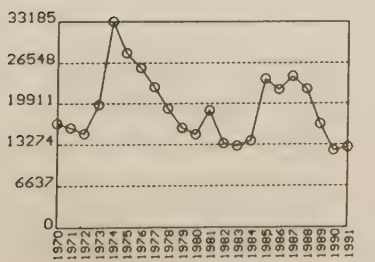
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Edible crab
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 44.76 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER CRUSTACEANS
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 13 %
Trend.....-28.75 %
Rank.....
.....



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CRUSTACEANS
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... -3.88 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

6.11 Production of molluscs (ISSCAAP GROUPS 51-58).

Table 6.11.1

ATLANTIC, SOUTHEAST
Molluscs (ISSCAAP GROUPS 51-58), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Chokker squid	1	4986	48.6 %	Rising
Sea mussels nei	2	1960	19.1 %	Sharp rise
Squids nei	3	1675	16.3 %	Rising
Cupped oysters nei	4	662	6.5 %	Rising
Perlemoen abalone	5	624	6.1 %	Declining
Cuttlefishes, bobtail squids	6	256	2.5 %	Rising
Octopuses	7	59	0.6 %	Rising
Donax clams	8	30	0.3 %	Rising
Marine molluscs nei	9	0	0.0 %	Rising
Common squids	10	0	0.0 %	Sharp rise
TOTAL MOLLUSCS		10252	100.0 %	Rising

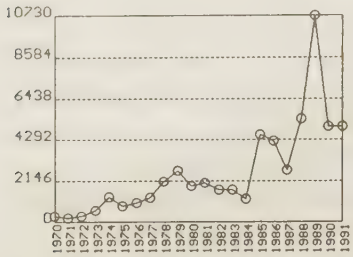
Proportion coming from declining catches.....	6.1 %
from stable catches.....	0.0 %
from rising catches.....	93.9 %

Major fishing countries ranked by 1990 production: South Africa:81.55%, Spain:11.81%, Korea Rep:4.09%, USSR:1.56%, Japan:0.71%, Israel:0.27%.

Table 6.11.2

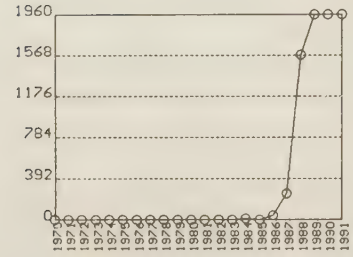
ATLANTIC, SOUTHEAST
Ranking order and proportions of molluscs (ISSCAAP GROUPS 51-58), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Chokker squid	1	1873	2 19.6%	300	3 8.1%
Sea mussels nei	2	0	9 0.0%	0	8 0.0%
Squids nei	3	5378	1 56.1%	1300	2 35.1%
Cupped oysters nei	4	331	5 3.5%	0	5 0.0%
Perlemoen abalone	5	739	4 7.7%	1900	1 51.4%
Cuttlefishes, bobtail squids	6	965	3 10.1%	200	4 5.4%
Octopuses	7	242	6 2.5%	0	10 0.0%
Donax clams	8	13	8 0.1%	0	7 0.0%
Marine molluscs nei	9	41	7 0.4%	0	6 0.0%
Common squids	10	0	10 0.0%	0	9 0.0%
TOTALS		9582	100.0%	3700	100.0%



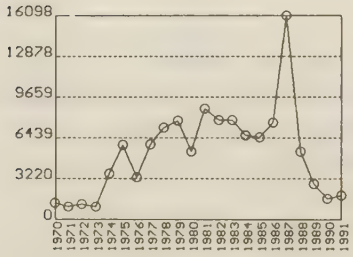
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Chokker squid
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 39.86 %
Rank..... 1 of 11 based on:1990
Percent to total..... 48.63 % , Cumulative: 48.63 %



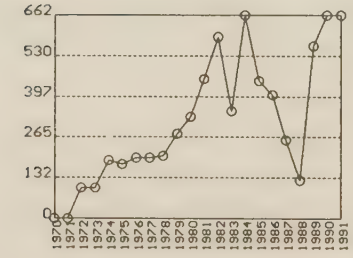
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sea mussels nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 0 %
Trend..... 77.92 %
Rank..... 2 of 11 based on:1990
Percent to total..... 19.12 % , Cumulative: 67.75 %



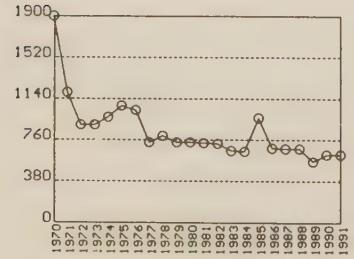
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Squids nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 12.64 %
Rank..... 3 of 11 based on:1990
Percent to total..... 16.34 % , Cumulative: 84.09 %



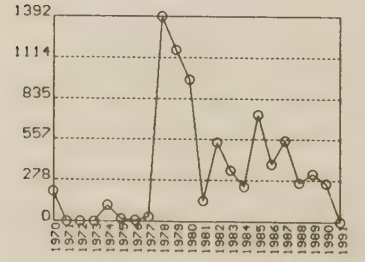
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cupped oysters nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 28.46 %
Rank..... 4 of 11 based on:1990
Percent to total..... 6.46 % , Cumulative: 90.55 %



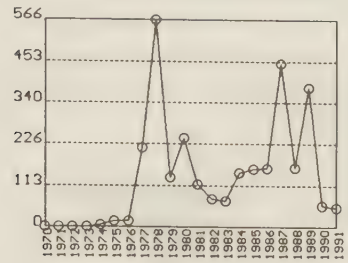
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Perlemoen abalone
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 3 %
Trend.....-13.32 %
Rank..... 5 of 11 based on:1990
Percent to total..... 6.09 % , Cumulative: 96.63 %



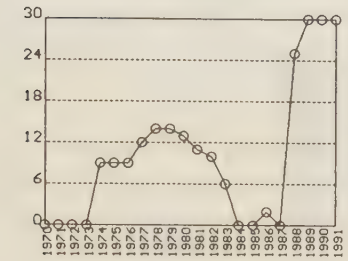
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cuttlefishes, bobtail squids
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... 11.28 %
Rank..... 6 of 11 based on:1990
Percent to total..... 2.50 % , Cumulative: 99.13 %



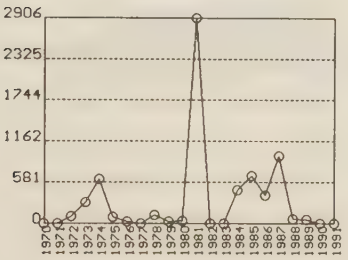
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Octopuses
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 23.76 %
Rank..... 7 of 11 based on:1990
Percent to total..... 0.58 % , Cumulative: 99.71 %



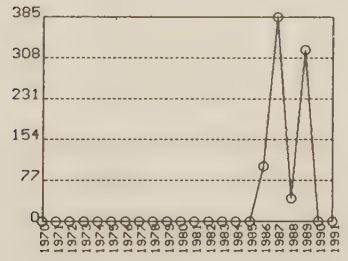
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Donax clams
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 32.45 %
Rank..... 8 of 11 based on:1990
Percent to total..... 0.29 % , Cumulative:100.00 %



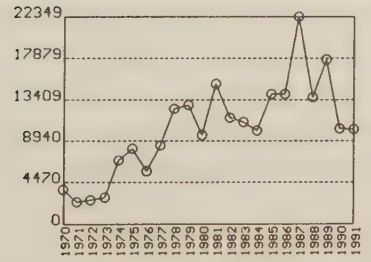
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marine molluscs nei
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 9.40 %
Rank..... 9 of 11 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common squids
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

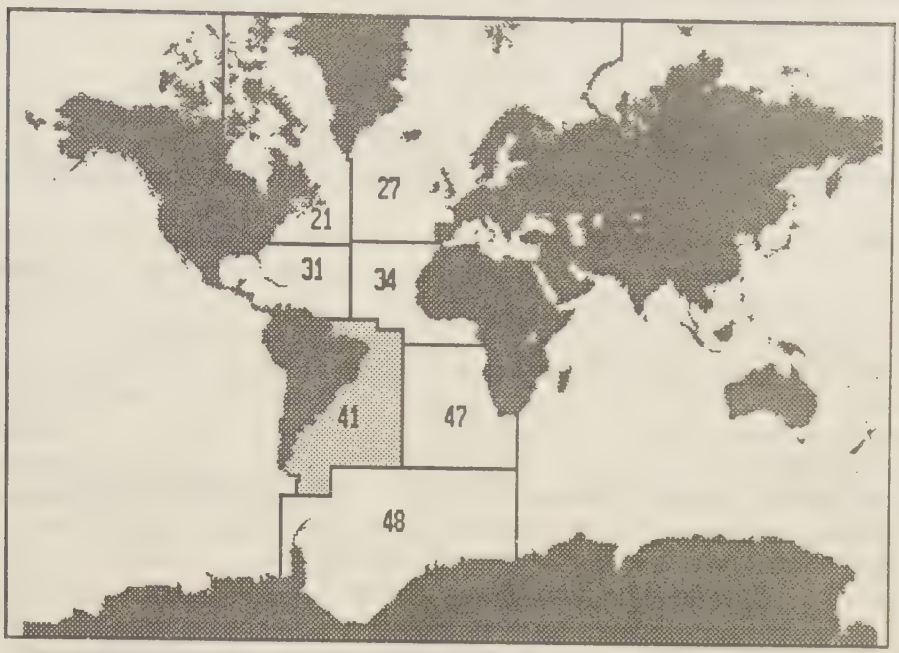
Fluctuation..... 12 %
Trend..... 62.49 %
Rank..... 10 of 11 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MOLLUSCS
Area.....ATLANTIC, SOUTHEAST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 20.30 %
Rank..... 11 of 11 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

7. ATLANTIC, SOUTHWEST (Area 41)



Major producers of fish, crustaceans and molluscs (1990 ranking): Argentina:31.07%, Brazil:19.84%, USSR:13.56%, Korea Rep:6.46%, Japan:6.27%, Other nei A:5.41%, Uruguay:5.01%, Poland:4.93%, Spain:3.92%, Bulgaria:1.60%, Germany NL:0.40%, Portugal:0.37%, Italy:0.35%, Falkland Is:0.33%, Greece:0.23%, Cuba:0.09%.

Major species and percentages based on 1990 ranking: Squids nei:24.75%, Argentine hake:24.01%, Southern blue whiting:11.04%, Argentine shortfin squid:3.92%, Atlantic croaker:3.11%, Penaeus shrimps nei:2.88%, Pink cusk-eel:2.01%, Weakfishes nei:1.97%, Brazilian sardinella:1.83%, Sharks, rays, skates, etc:1.44%, Grenadiers:1.14%, Argentine croaker:1.12%, Blue grenadiers:1.08%, Common squids:0.92%, Skipjack tuna:0.87%, Striped weakfish:0.86%, Mullets nei:0.86%, Sea catfishes nei:0.79%, Marine crabs nei:0.78%, Argentine anchoita:0.77%, Albacore:0.71%, Patagonian squid:0.70%, Flatfishes nei:0.67%, Patagonian grenadier:0.62%, Demersal percomorphs nei:0.60%, Skates and rays, nei:0.60%, Argentine red shrimp:0.56%, Chub mackerel:0.51%, Bigeye tuna:0.50%, Carangids nei:0.49%, OTHER SPECIES:7.87%.

7.1 Production of diadromous fish (ISSCAAP GROUPS 21-25): Negligible.

7.2 Production of flounders, halibuts, soles, etc. (ISSCAAP GROUP 31).

Table 7.2.1

ATLANTIC, SOUTHWEST
Flounders, halibuts, soles, etc. (ISSCAAP GROUP 31), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Flatfishes nei	1	11765	95.2 %	Rising
Tonguefishes nei	2	488	4.0 %	Sharp rise
Bastard halibuts	3	105	0.9 %	Rising
TOTAL FLOUNDERS, SOLES, ETC.		12358	100.0 %	Rising

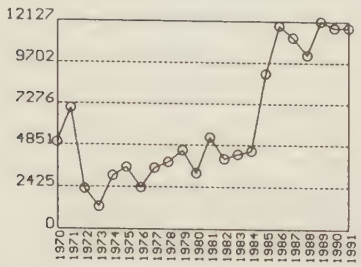
Proportion coming from declining catches.....	0.0 %
from stable catches.....	0.0 %
from rising catches.....	100.0 %

Major fishing countries ranked by 1990 production: Argentina:72.54%, Brazil:20.23%, Italy:6.38%, Uruguay:0.85%.

Table 7.2.2

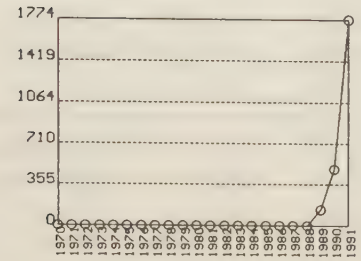
ATLANTIC, SOUTHWEST
Ranking order and proportions of flounders, halibuts, soles, etc., (ISSCAAP GROUP 31), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Flatfishes nei	1	3209	1 94.0%	5000	1 100.0%
Tonguefishes nei	2	0	3 0.0%	0	3 0.0%
Bastard halibuts	3	204	2 6.0%	0	2 0.0%
TOTALS		3413	100.0%	5000	100.0%



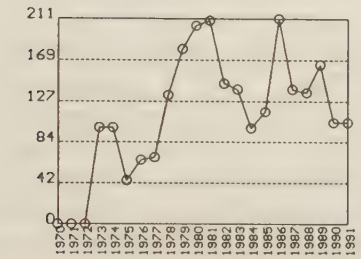
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Flatfishes nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 25.54 %
Rank..... 1 of 4 based on:1990
Percent to total..... 95.20 % , Cumulative: 95.20 %



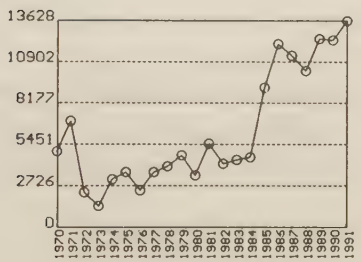
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tonguefishes nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation.....
Trend..... 88.52 %
Rank..... 2 of 4 based on:1990
Percent to total..... 3.95 % , Cumulative: 99.15 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bastard halibuts
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 18.43 %
Rank..... 3 of 4 based on:1990
Percent to total..... 0.85 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL FLOUNDERS, SOLES, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 26.49 %
Rank..... 4 of 4 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

7.3 Production of cods, hakes, haddocks, etc. (ISSCAAP GROUP 32)

Table 7.3.1

ATLANTIC, SOUTHWEST
Cods, hakes, haddocks, etc., (ISSCAAP GROUP 32), ranked by 1990 production

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Argentine hake	1	421134	62.3 %	Rising
Southern blue whiting	2	193597	28.6 %	Rising
Grenadiers	3	19987	3.0 %	Sharp rise
Blue grenadiers	4	18947	2.8 %	Sharp rise
Patagonian grenadier	5	10905	1.6 %	Sharp rise
Patagonian hake	6	4899	0.7 %	Sharp rise
Moras	7	2663	0.4 %	Rising
Brazilian codling	8	2307	0.3 %	Sharp rise
Gadiformes nei	9	1728	0.3 %	Rising
Salilota australis	10	4	0.0 %	Sharp rise
Hakes nei	11	0	0.0 %	Rising
TOTAL CODS, HAKES, ETC.		676171	100.0 %	Rising

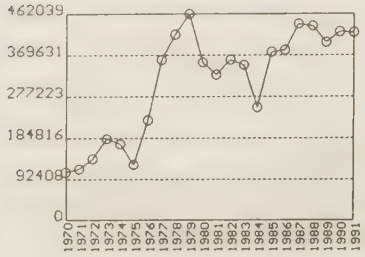
Proportion coming from declining catches.....	0.0 %
from stable catches.....	0.0 %
from rising catches.....	100.0 %

Major fishing countries ranked by 1990 production: Argentina:56.92%, USSR:19.18%, Uruguay:8.25%, Poland:8.11%, Bulgaria:3.14%, Spain:2.60%, Brazil:1.38%, Portugal:0.15%, Japan:0.15%, Italy:0.04%, Korea Rep:0.04%, Germany NL:0.02%, Falkland Is:0.01%.

Table 7.3.2

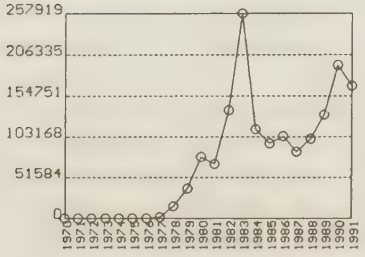
ATLANTIC, SOUTHWEST
Ranking order and proportions of cods, hakes, haddocks, etc., (ISSCAAP GROUP 32), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Argentine hake	1	354708	1 79.5%	108100	1 98.6%
Southern blue whiting	2	78011	2 17.5%	0	5 0,0%
Grenadiers	3	737	5 0.2%	1500	2 1.4%
Blue grenadiers	4	0	7 0.0%	0	6 0.0%
Patagonian grenadier	5	6642	3 1.5%	0	3 0.0%
Patagonian hake	6	0	11 0.0%	0	10 0.0%
Moras	7	0	8 0.0%	0	7 0.0%
Brazilian codling	8	251	6 0.1%	0	11 0.0%
Gadiformes nei	9	5831	4 1.3%	0	4 0.0%
Salilota australis	10	0	9 0.0%	0	8 0.0%
Hakes nei	11	0	10 0.0%	0	9 0.0%
TOTALS		446180	100.0%	109600	100.0%



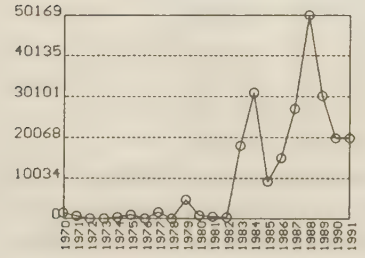
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Argentine hake
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 17.03 %
Rank..... 1 of 12 based on:1990
Percent to total..... 62.28 % , Cumulative: 62.28 %



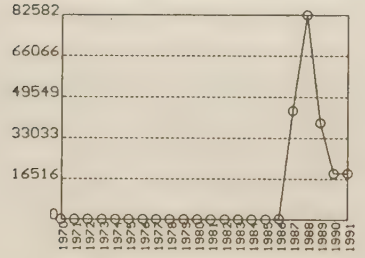
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Southern blue whiting
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 44.66 %
Rank..... 2 of 12 based on:1990
Percent to total..... 28.63 % , Cumulative: 90.91 %



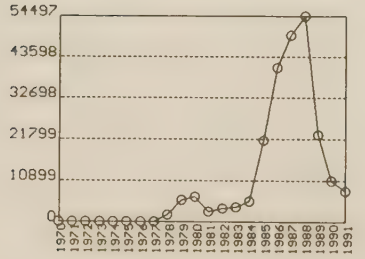
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Grenadiers
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 54.14 %
Rank..... 3 of 12 based on:1990
Percent to total..... 2.96 % , Cumulative: 93.87 %



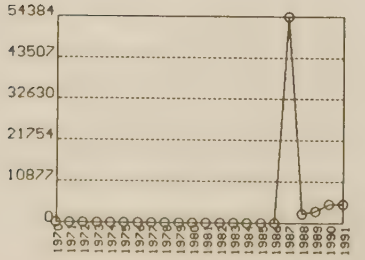
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blue grenadiers
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... 69.00 %
Rank..... 4 of 12 based on:1990
Percent to total..... 2.80 % , Cumulative: 96.67 %



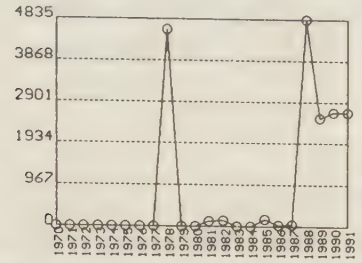
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Patagonian grenadier
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... 53.09 %
Rank..... 5 of 12 based on:1990
Percent to total..... 1.61 % , Cumulative: 98.28 %



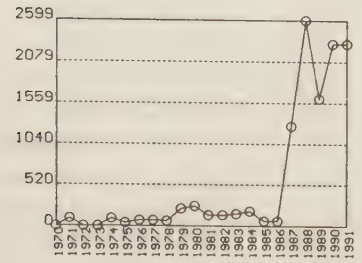
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Patagonian hake
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 61.88 %
Rank..... 6 of 12 based on:1990
Percent to total..... 0.72 % , Cumulative: 99.01 %



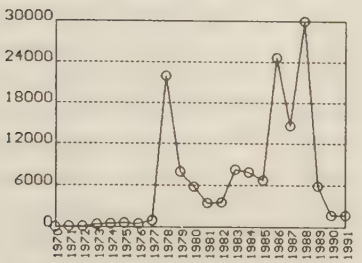
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Moras
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 49.35 %
Rank..... 7 of 12 based on:1990
Percent to total..... 0.39 % , Cumulative: 99.40 %



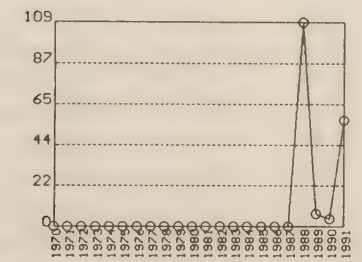
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Brazilian codling
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 63.83 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.34 % , Cumulative: 99.74 %



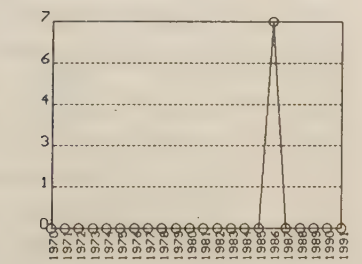
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Gadiformes nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 31.84 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.26 % , Cumulative:100.00 %



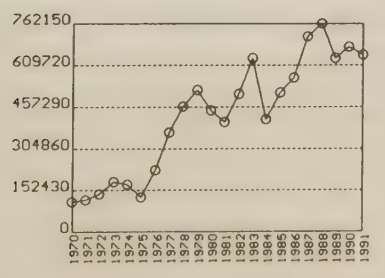
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Salilota australis
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 74.36 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Hakes nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 47.83 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CODS, HAKES, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 25.41 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

7.4 Production of redfishes, basses, congers, etc. (ISSCAAP GROUP 33).

Table 7.4.1

ATLANTIC, SOUTHWEST

Redfishes, basses, congers, etc. (ISSCAAP GROUP 33), ranked by 1990 catches

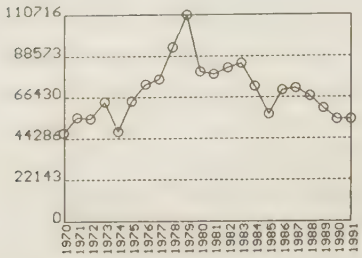
SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Atlantic croaker	1	54586	23.4 %	Stable (+)
Pink cusk-eel	2	35334	15.1 %	Rising
Weakfishes nei	3	34600	14.8 %	Stable (+)
Argentine croaker	4	19644	8.4 %	Rising
Striped weakfish	5	15153	6.5 %	Rising
Sea catfishes nei	6	13774	5.9 %	Stable (-)
Demersal percomorphs nei	7	10466	4.5 %	Rising
Argentine seabass	8	7556	3.2 %	Rising
Percoids nei	9	5349	2.3 %	Rising
Brazilian flathead	10	3832	1.6 %	Stable (-)
Blackbelly rosefish(Jacopever)	11	3822	1.6 %	Sharp rise
Southern red snapper	12	3600	1.5 %	Declining
Red porgy	13	2928	1.3 %	Rising
Yellowtail snapper	14	2800	1.2 %	Stable (-)
Groupers nei	15	2566	1.1 %	Rising
Patagonian toothfish	16	2378	1.0 %	Sharp rise
Snooks(=Robalos)nei	17	2300	1.0 %	Stable (+)
Red grouper	18	1800	0.8 %	Declining
Patagonotothen longipes ramsai	19	1732	0.7 %	Sharp rise
Barred grunt	20	1400	0.6 %	Declining
Grey rockcod	21	1307	0.6 %	Sharp rise
Brazilian groupers	22	1100	0.5 %	Stable (-)
Atlantic searobins	23	920	0.4 %	Sharp rise
Castaneta	24	885	0.4 %	Sharp decl
Black drum	25	817	0.4 %	Declining
Porgies, seabreams, nei	26	587	0.3 %	Sharp rise
Argentine conger	27	579	0.3 %	Rising
Surmullets(=Red mullets)	28	480	0.2 %	Stable (-)
Brazilian sandperches	29	340	0.2 %	Declining
Dentex nei	30	338	0.1 %	Sharp rise
Scorpionfishes, nei	31	220	0.1 %	Sharp rise
Groupers, seabasses nei	32	185	0.1 %	Sharp rise
King weakfish	33	117	0.1 %	Declining
Croakers, drums nei	34	99	0.0 %	Sharp rise
Ruffs, barrelfishes nei	35	36	0.0 %	Sharp rise
TOTAL REDFISHES, BASSES, ETC.		233684	100.0 %	Rising

Proportion coming from declining catches.....	3.8 %
from stable catches.....	48.6 %
from rising catches.....	47.6 %

Major fishing countries ranked by 1990 production: Brazil:53.70%, Argentina:30.52%, Uruguay:12.23%, USSR:1.63%, Italy:0.82%, Bulgaria:0.56%, Spain:0.40%, Japan:0.07%, Korea Rep:0.05%, Portugal:0.02%.

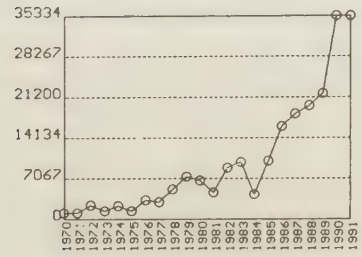
Table 7.4.2
ATLANTIC, SOUTHWEST
Ranking order and proportions of redfishes, basses, congers, etc., (ISSCAAP GROUP 33), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Atlantic croaker	1	80235	1 31.8%	47300	1 32.3%
Pink cusk-eel	2	6722	8 2.7%	1100	21 0.8%
Weakfishes nei	3	44761	2 17.7%	24400	2 16.7%
Argentine croaker	4	1984	15 0.8%	3200	8 2.2%
Striped weakfish	5	24884	4 9.9%	6800	5 4.6%
Sea catfishes nei	6	29626	3 11.7%	16000	3 10.9%
Demersal percomorphs nei	7	5814	9 2.3%	4700	6 3.2%
Argentine seabass	8	12690	5 5.0%	2500	12 1.7%
Percoids nei	9	4684	11 1.9%	2200	14 1.5%
Brazilian flathead	10	2686	12 1.1%	2600	11 1.8%
Blackbelly rosefish(Jacopever)	11	39	29 0.0%	200	25 0.1%
Southern red snapper	12	5490	10 2.2%	4600	7 3.1%
Red porgy	13	9595	6 3.8%	2100	16 1.4%
Yellowtail snapper	14	1711	17 0.7%	2100	15 1.4%
Groupers nei	15	1473	19 0.6%	2100	17 1.4%
Patagonian toothfish	16	388	24 0.2%	0	47 0.0%
Snooks(=Robalos)nei	17	2429	13 1.0%	2200	13 1.5%
Red grouper	18	1596	18 0.6%	3100	9 2.1%
Patagonotothen longipes ramsai	19	0	44 0.0%	0	43 0.0%
Barred grunt	20	882	23 0.4%	2900	10 2.0%
Grey rockcod	21	0	42 0.0%	0	41 0.0%
Brazilian groupers	22	939	21 0.4%	1100	20 0.8%
Atlantic searobins	23	9	31 0.0%	0	30 0.0%
Castaneta	24	2161	14 0.9%	11000	4 7.5%
Black drum	25	906	22 0.4%	1700	18 1.2%
Porgies, seabreams, nei	26	0	38 0.0%	0	37 0.0%
Argentine conger	27	73	27 0.0%	100	27 0.1%
Surmullets(=Red mullets)	28	129	26 0.1%	500	22 0.3%
Brazilian sandperches	29	168	25 0.1%	1400	19 1.0%
Dentex nei	30	0	35 0.0%	0	34 0.0%
Scorpionfishes, nei	31	0	36 0.0%	0	35 0.0%
Groupers, seabasses nei	32	0	47 0.0%	0	46 0.0%
King weakfish	33	1268	20 0.5%	200	23 0.1%
Croakers, drums nei	34	0	34 0.0%	0	36 0.0%
Ruffs, barrelfishes nei	35	0	43 0.0%	0	42 0.0%
TOTALS		252694	100.0%	146400	100.0%



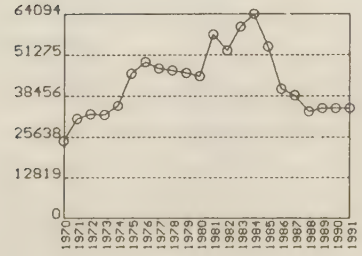
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic croaker
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 0.99 %
Rank..... 1 of 12 based on:1990
Percent to total..... 23.36 % , Cumulative: 23.36 %



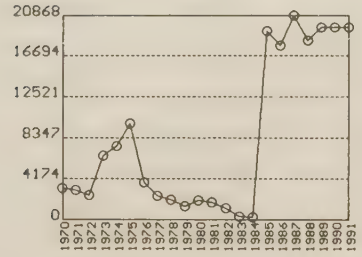
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Pink cusk-eel
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 48.06 %
Rank..... 2 of 12 based on:1990
Percent to total..... 15.12 % , Cumulative: 38.48 %



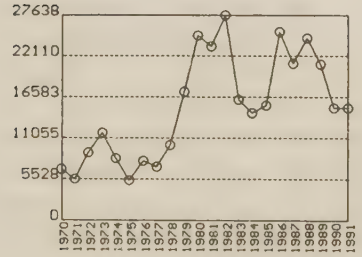
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Weakfishes nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 2.65 %
Rank..... 3 of 12 based on:1990
Percent to total..... 14.81 % , Cumulative: 53.29 %



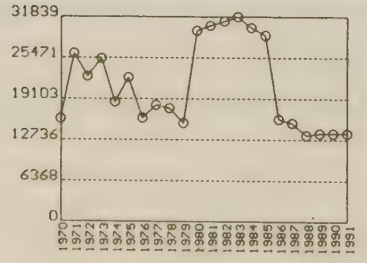
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Argentine croaker
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 35.82 %
Rank..... 4 of 12 based on:1990
Percent to total..... 8.41 % , Cumulative: 61.69 %



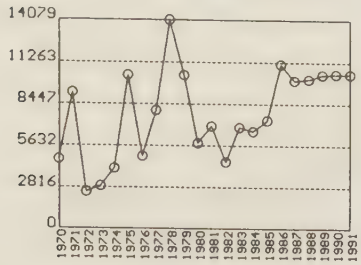
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Striped weakfish
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 17.17 %
Rank..... 5 of 12 based on:1990
Percent to total..... 6.48 % , Cumulative: 68.18 %



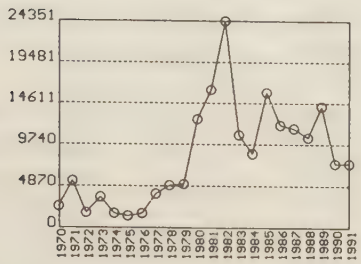
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sea catfishes nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... -3.79 %
Rank..... 6 of 12 based on:1990
Percent to total..... 5.89 % , Cumulative: 74.07 %



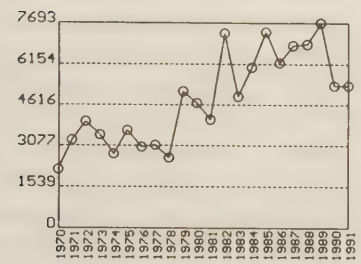
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Demersal percomorphs nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 10.95 %
Rank..... 7 of 12 based on:1990
Percent to total..... 4.48 % , Cumulative: 78.55 %



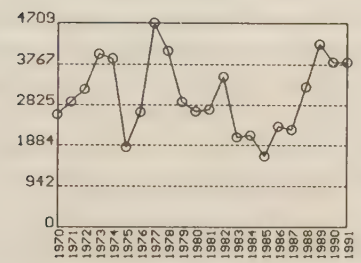
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Argentine seabass
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 22.58 %
Rank..... 8 of 12 based on:1990
Percent to total..... 3.23 % , Cumulative: 81.78 %



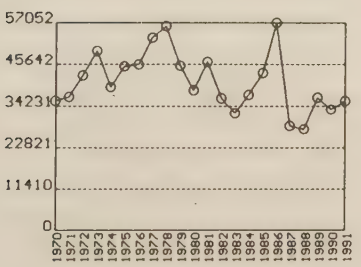
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Percoids nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 15.46 %
Rank..... 9 of 12 based on:1990
Percent to total..... 2.29 % , Cumulative: 84.07 %



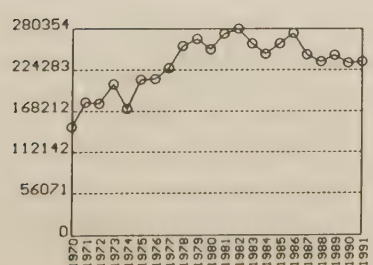
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Brazilian flathead
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... -0.10 %
Rank..... 10 of 12 based on:1990
Percent to total..... 1.64 % , Cumulative: 85.71 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER REDFISHES, BASSES, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... -3.68 %
Rank..... 11 of 12 based on:1990
Percent to total..... 14.29 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL REDFISHES, BASSES, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 5.78 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

7.5 Production of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34).

Table 7.5.1

ATLANTIC, SOUTHWEST
Jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Mullets nei	1	15039	39.2 %	Declining
Carangids nei	2	8550	22.3 %	Sharp rise
Bluefish	3	5749	15.0 %	Declining
Jacks, crevalles, nei	4	4500	11.7 %	Rising
Common dolphinfish	5	1700	4.4 %	Declining
Flyingfishes nei	6	650	1.7 %	Stable (-)
Silversides(=Sand smelts)	7	624	1.6 %	Declining
Ballyhoo halfbeak	8	500	1.3 %	Stable (+)
Pelagic percomorphs nei	9	291	0.8 %	Declining
Blue jack mackerel	10	232	0.6 %	Declining
Parona leatherjack	11	221	0.6 %	Rising
Barracudas	12	180	0.5 %	Declining
Jack and horse mackerels nei	13	65	0.2 %	Sharp rise
Amberjacks nei	14	49	0.1 %	Declining
Butterfishes, silver pomfrets	15	24	0.1 %	Sharp rise
Gulf butterfish, harvestfishes	16	0	0.0 %	Sharp decl
TOTAL JACKS, MULLETS, ETC.		38374	100.0 %	Declining

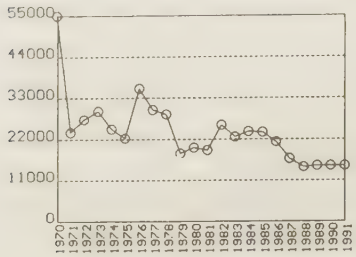
Proportion coming from declining catches.....	62.2 %
from stable catches.....	3.0 %
from rising catches.....	34.8 %

Major fishing countries ranked by 1990 production: Brazil:93.79%, Argentina:4.73%, Uruguay:0.95%, Italy:0.46%, Bulgaria:0.06%, Germany NL:0.01%.

Table 7.5.2

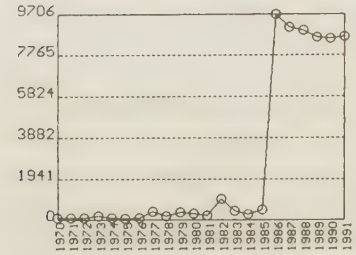
ATLANTIC, SOUTHWEST
Ranking order and proportions of jacks, mullets, sauries, etc. (ISSCAAP GROUP 34), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Mullets nei	1	19880	1 46.1%	55000	1 65.7%
Carangids nei	2	311	11 0.7%	100	13 0.1%
Bluefish	3	4614	3 10.7%	17000	2 20.3%
Jacks, crevalles, nei	4	11876	2 27.5%	4200	3 5.0%
Common dolphinfish	5	557	9 1.3%	2000	5 2.4%
Flyingfishes nei	6	734	7 1.7%	1200	6 1.4%
Silversides(=Sand smelts)	7	1526	4 3.5%	2100	4 2.5%
Ballyhoo halfbeak	8	649	8 1.5%	400	8 0.5%
Pelagic percomorphs nei	9	200	12 0.5%	600	7 0.7%
Blue jack mackerel	10	867	6 2.0%	300	9 0.4%
Parona leatherjack	11	1411	5 3.3%	0	14 0.0%
Barracudas	12	336	10 0.8%	200	12 0.2%
Jack and horse mackerels nei	13	0	14 0.0%	0	15 0.0%
Amberjacks nei	14	199	13 0.5%	300	10 0.4%
Butterfishes, silver pomfrets	15	0	15 0.0%	0	16 0.0%
Gulf butterfish, harvestfishes	16	0	16 0.0%	300	11 0.4%
TOTALS		43160	100.0%	83700	100.0%



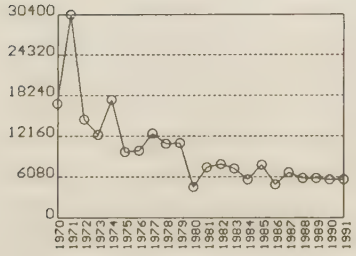
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mullets nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend.....-14.09 %
Rank..... 1 of 12 based on:1990
Percent to total..... 39.19 % , Cumulative: 39.19 %



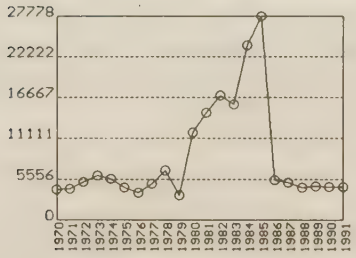
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Carangids nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 63.37 %
Rank..... 2 of 12 based on:1990
Percent to total..... 22.28 % , Cumulative: 61.47 %



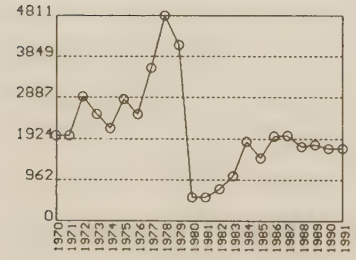
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bluefish
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-24.10 %
Rank..... 3 of 12 based on:1990
Percent to total..... 14.98 % , Cumulative: 76.45 %



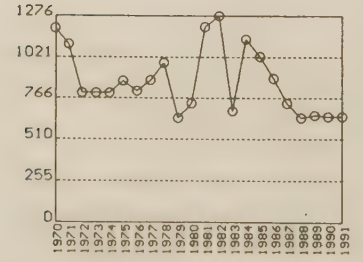
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Jacks, crevalles, nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 9.62 %
Rank..... 4 of 12 based on:1990
Percent to total..... 11.73 % , Cumulative: 88.18 %



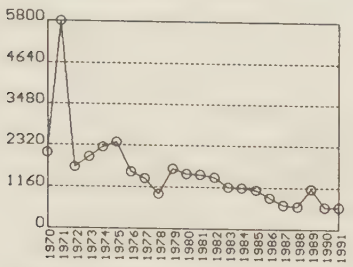
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common dolphinfish
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... -9.69 %
Rank..... 5 of 12 based on:1990
Percent to total..... 4.43 % , Cumulative: 92.61 %



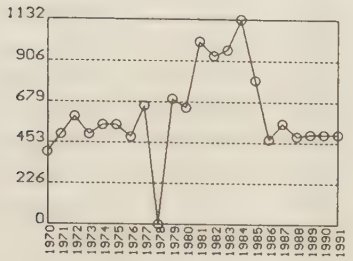
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Flyingfishes nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... -4.75 %
Rank..... 6 of 12 based on:1990
Percent to total..... 1.69 % , Cumulative: 94.30 %



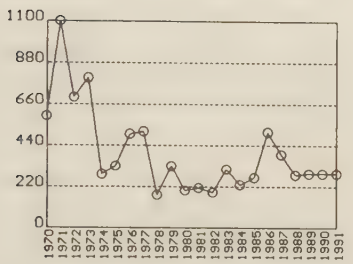
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Silversides(=Sand smelts)
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend.....-25.75 %
Rank..... 7 of 12 based on:1990
Percent to total..... 1.63 % , Cumulative: 95.93 %



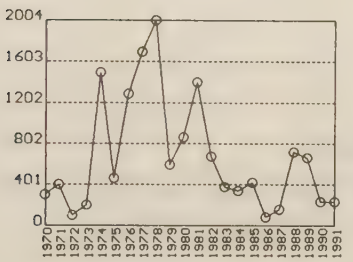
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Ballyhoo halfbeak
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... 3.72 %
Rank..... 8 of 12 based on:1990
Percent to total..... 1.30 % , Cumulative: 97.23 %



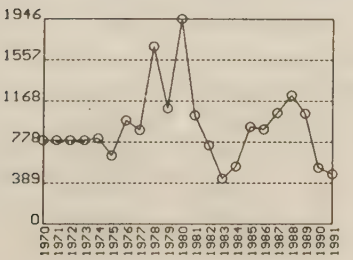
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Pelagic percomorphs nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 13 %
Trend.....-18.23 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.76 % , Cumulative: 97.99 %



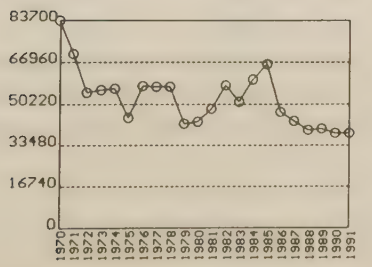
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blue jack mackerel
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... -9.91 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.60 % , Cumulative: 98.60 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER JACKS, MULLETS, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... -1.37 %
Rank..... 11 of 12 based on:1990
Percent to total..... 1.41 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL JACKS, MULLETS, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... -7.83 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

7.6 Production of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35).

Table 7.6.1

ATLANTIC, SOUTHWEST
Herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Brazilian sardinella	1	32081	59.0 %	Declining
Argentine anchoita	2	13508	24.9 %	Declining
Brazilean menhaden	3	3400	6.3 %	Stable (-)
Anchovies nei	4	3400	6.3 %	Declining
Tarpon	5	1400	2.6 %	Declining
Argentine menhaden	6	480	0.9 %	Rising
Ladyfish	7	80	0.2 %	Rising
Clupeoids nei	8	1	0.0 %	Rising
TOTAL HERRINGS, SARDINES, ETC.		54350	100.0 %	Declining

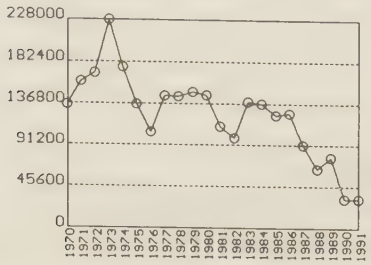
Proportion coming from declining catches.....	92.7 %
from stable catches.....	6.3 %
from rising catches.....	1.0 %

Major fishing countries ranked by 1990 production: Brazil:74.26%, Argentina:24.61%, USSR:0.74%, Uruguay:0.39%.

Table 7.6.2

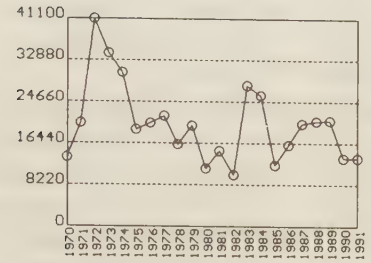
ATLANTIC, SOUTHWEST
Ranking order and proportions of herrings, sardines, anchovies, etc. (ISSCAAP GROUP 35), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Brazilian sardinella	1	146276	1 80.8%	135400	1 87.0%
Argentine anchoita	2	11420	3 6.3%	13600	2 8.7%
Brazilean menhaden	3	3748	4 2.1%	1400	5 0.9%
Anchovies nei	4	17081	2 9.4%	2800	3 1.8%
Tarpon	5	1869	5 1.0%	2200	4 1.4%
Argentine menhaden	6	665	6 0.4%	200	6 0.1%
Ladyfish	7	46	7 0.0%	0	11 0.0%
Clupeoids nei	8	0	8 0.0%	0	7 0.0%
TOTALS		181105	100.0%	155600	100.0%



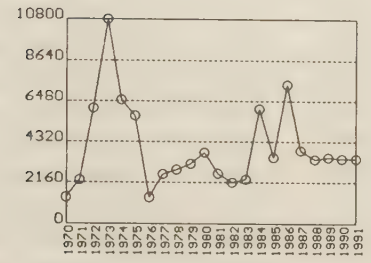
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Brazilian sardinella
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-15.84 %
Rank..... 1 of 6 based on:1990
Percent to total..... 59.03 % , Cumulative: 59.03 %



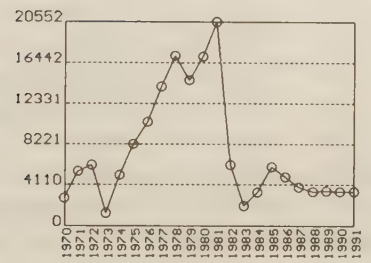
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Argentine anchoita
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... -8.38 %
Rank..... 2 of 6 based on:1990
Percent to total..... 24.85 % , Cumulative: 83.88 %



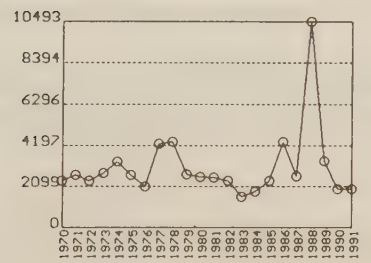
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Brazilean menhaden
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... -3.61 %
Rank..... 3 of 6 based on:1990
Percent to total..... 6.26 % , Cumulative: 90.14 %



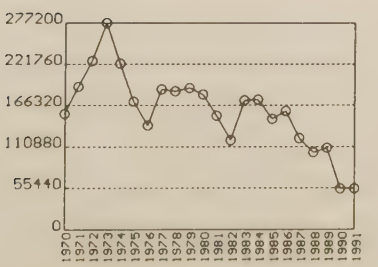
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Anchovies nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... -8.20 %
Rank..... 4 of 6 based on:1990
Percent to total..... 6.26 % , Cumulative: 96.39 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 5.69 %
Rank..... 5 of 6 based on:1990
Percent to total..... 3.61 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL HERRINGS, SARDINES, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-13.81 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

7.7 Production of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36).

Table 7.7.1

ATLANTIC, SOUTHWEST
Tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Skipjack tuna	1	15190	27.8 %	Rising
Albacore	2	12539	22.9 %	Rising
Bigeye tuna	3	8731	16.0 %	Rising
Swordfish	4	7189	13.2 %	Rising
Yellowfin tuna	5	2581	4.7 %	Rising
Frigate and bullet tunas	6	1761	3.2 %	Sharp rise
Atlantic bonito	7	1421	2.6 %	Declining
Tuna-like fishes nei	8	1357	2.5 %	Rising
Atlantic Spanish mackerel	9	1161	2.1 %	Declining
Atlantic blue marlin	10	812	1.5 %	Rising
Atlantic white marlin	11	800	1.5 %	Rising
King mackerel	12	676	1.2 %	Declining
Atlantic sailfish	13	232	0.4 %	Stable (-)
Blackfin tuna	14	109	0.2 %	Stable (-)
Atlantic black skipjack	15	103	0.2 %	Rising
Marlins,sailfishes,spearfishes	16	24	0.0 %	Rising
Northern bluefin tuna	17	3	0.0 %	Stable (-)
Seerfishes nei	18	0	0.0 %	Sharp rise
Southern bluefin tuna	19	0	0.0 %	Declining
Tunas nei	20	0	0.0 %	Sharp rise
Wahoo	21	0	0.0 %	Stable (+)
TOTAL TUNAS, BONITOS, ETC.		54689	100.0 %	Rising

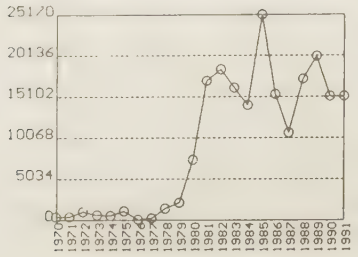
Proportion coming from declining catches.....	6.0 %
from stable catches.....	0.6 %
from rising catches.....	93.4 %

Major fishing countries ranked by 1990 production: Brazil:41.89%, Other nei A:26.95%, Japan:21.73%, Spain:4.79%, Argentina:3.30%, Uruguay:0.76%, Korea Rep:0.58%.

Table 7.7.2

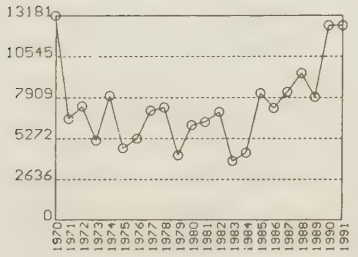
ATLANTIC, SOUTHWEST
Ranking order and proportions of tunas, bonitos, billfishes, etc. (ISSCAAP GROUP 36), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Skipjack tuna	1	7379	1 29.0%	403	12 1.2%
Albacore	2	6144	2 24.1%	13181	1 39.6%
Bigeye tuna	3	1878	5 7.4%	3668	4 11.0%
Swordfish	4	1893	4 7.4%	3733	3 11.2%
Yellowfin tuna	5	1474	6 5.8%	1925	5 5.8%
Frigate and bullet tunas	6	0	19 0.0%	0	18 0.0%
Atlantic bonito	7	2603	3 10.2%	4200	2 12.6%
Tuna-like fishes nei	8	1012	8 4.0%	677	8 2.0%
Atlantic Spanish mackerel	9	1356	7 5.3%	1868	6 5.6%
Atlantic blue marlin	10	102	14 0.4%	582	10 1.8%
Atlantic white marlin	11	147	13 0.6%	622	9 1.9%
King mackerel	12	846	9 3.3%	1532	7 4.6%
Atlantic sailfish	13	196	10 0.8%	495	11 1.5%
Blackfin tuna	14	181	11 0.7%	52	14 0.2%
Atlantic black skipjack	15	0	17 0.0%	0	21 0.0%
Marlins,sailfishes,spearfishes	16	0	21 0.0%	0	20 0.0%
Northern bluefin tuna	17	14	16 0.1%	0	15 0.0%
Seerfishes nei	18	0	18 0.0%	0	17 0.0%
Southern bluefin tuna	19	178	12 0.7%	345	13 1.0%
Tunas nei	20	0	20 0.0%	0	19 0.0%
Wahoo	21	56	15 0.2%	0	16 0.0%
TOTALS		25459	100.0%	33283	100.0%



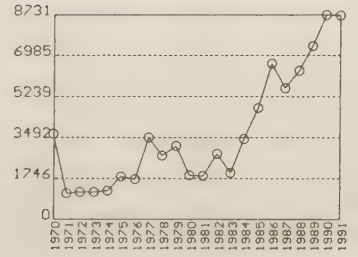
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Skipjack tuna
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 41.45 %
Rank..... 1 of 12 based on:1990
Percent to total..... 27.78 % , Cumulative: 27.78 %



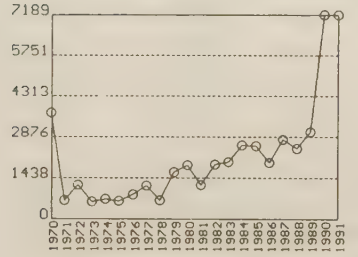
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Albacore
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... 5.49 %
Rank..... 2 of 12 based on:1990
Percent to total..... 22.93 % , Cumulative: 50.70 %



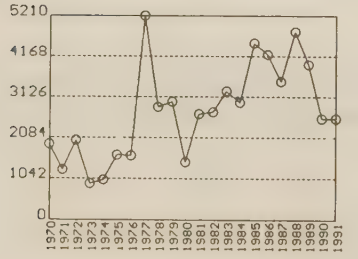
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Bigeye tuna
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 30.19 %
Rank..... 3 of 12 based on:1990
Percent to total..... 15.96 % , Cumulative: 66.67 %



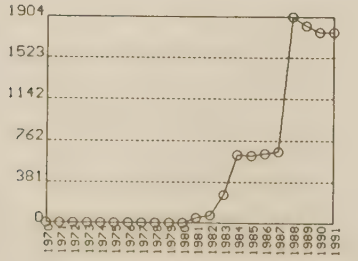
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Swordfish
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 29.51 %
Rank..... 4 of 12 based on:1990
Percent to total..... 13.15 % , Cumulative: 79.81 %



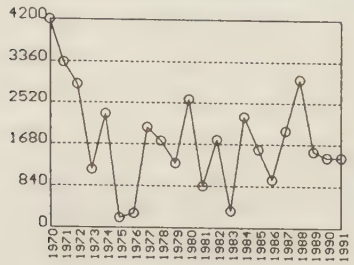
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Yellowfin tuna
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 17 %
Trend..... 14.55 %
Rank..... 5 of 12 based on:1990
Percent to total..... 4.72 % , Cumulative: 84.53 %



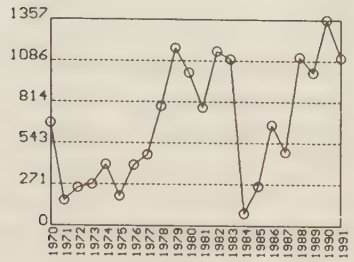
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Frigate and bullet tunas
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... 67.07 %
Rank..... 6 of 12 based on:1990
Percent to total..... 3.22 % , Cumulative: 87.75 %



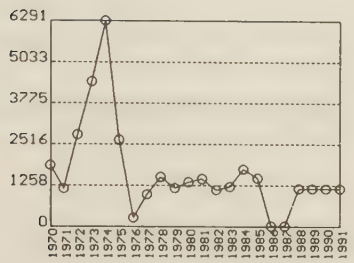
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic bonito
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 19 %
Trend..... -8.94 %
Rank..... 7 of 12 based on:1990
Percent to total..... 2.60 % , Cumulative: 90.35 %



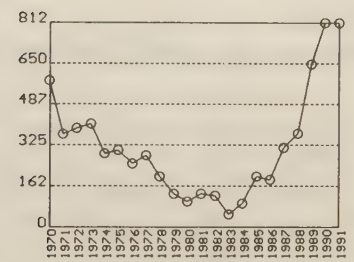
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Tuna-like fishes nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 17.71 %
Rank..... 8 of 12 based on:1990
Percent to total..... 2.48 % , Cumulative: 92.83 %



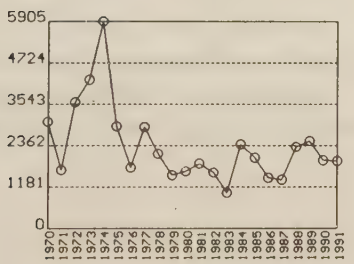
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic Spanish mackerel
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-22.53 %
Rank..... 9 of 12 based on:1990
Percent to total..... 2.12 % , Cumulative: 94.96 %



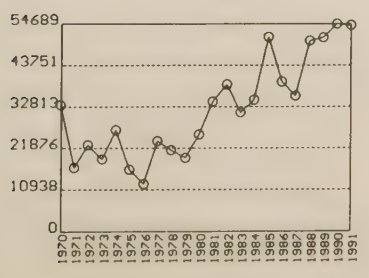
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Atlantic blue marlin
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 8.30 %
Rank..... 10 of 12 based on:1990
Percent to total..... 1.48 % , Cumulative: 96.44 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER TUNAS, BONITOS, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend.....-12.37 %
Rank..... 11 of 12 based on:1990
Percent to total..... 3.56 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL TUNAS, BONITOS, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 18.48 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

7.8 Production of mackerels, snoeks, cutlassfishes, etc. (ISSCAAP GROUP 37).

Table 7.8.1

ATLANTIC, SOUTHWEST
Mackerels,snoeks,etc. (ISSCAAP GROUP 37), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Chub mackerel	1	8966	88.9 %	Rising
Largehead hairtail	2	1100	10.9 %	Stable (+)
White snake mackerel(=Sierra)	3	21	0.2 %	Sharp rise
TOTAL MACKERELS, SNOEKS, ETC.		10087	100.0 %	Rising

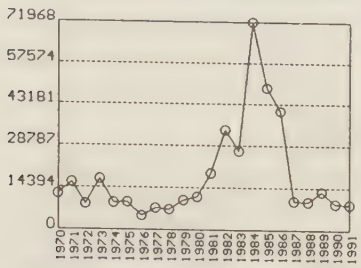
Proportion coming from declining catches.....	0.0 %
from stable catches.....	10.9 %
from rising catches.....	89.1 %

Major fishing countries ranked by 1990 production: Brazil:61.47%, Argentina:37.25%, Italy:0.97%, Uruguay:0.31%, Germany NL:0.01%.

Table 7.8.2

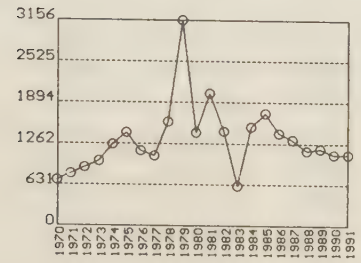
ATLANTIC, SOUTHWEST
Ranking order and proportions of mackerels,snoeks,etc., in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Chub mackerel	1	11384	1 88.8%	12200	1 94.6%
Largehead hairtail	2	1434	2 11.2%	700	2 5.4%
White snake mackerel(=Sierra)	3	0	3 0.0%	0	3 0.0%
TOTALS		12818	100.0%	12900	100.0%



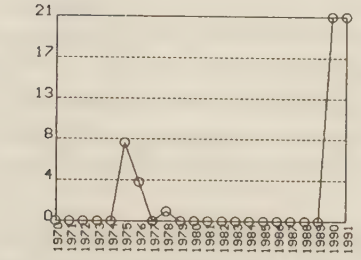
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Chub mackerel
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 8 %
Trend..... 12.10 %
Rank..... 1 of 4 based on:1990
Percent to total..... 88.89 % , Cumulative: 88.89 %



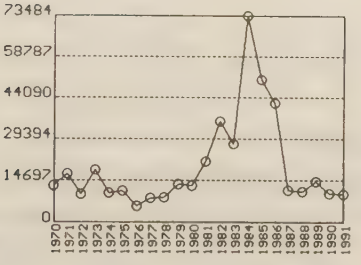
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Largehead hairtail
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 3.10 %
Rank..... 2 of 4 based on:1990
Percent to total..... 10.91 % , Cumulative: 99.79 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....White snake mackerel(=Sierra)
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... 56.21 %
Rank..... 3 of 4 based on:1990
Percent to total..... 0.21 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MACKERELS, SNOEKS, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 11.51 %
Rank..... 4 of 4 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

7.9 Production of sharks, rays, chimaeras, etc. (ISSCAAP GROUP 38).

Table 7.9.1

ATLANTIC, SOUTHWEST
Sharks, rays, etc. (ISSCAAP GROUP 38), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Sharks, rays, skates, etc	1	25326	55.0 %	Rising
Skates and rays, nei	2	10449	22.7 %	Stable (+)
Patagonian smoothhound	3	7610	16.5 %	Rising
Chola guitarfish	4	1100	2.4 %	Stable (-)
Elephantfishes	5	850	1.8 %	Rising
Sawfishes	6	690	1.5 %	Stable (-)
Liveroil sharks	7	67	0.2 %	Sharp decl
Picked(=Spiny)dogfish	8	0	0.0 %	Rising
Smoothhounds	9	0	0.0 %	Sharp rise
TOTAL SHARKS, RAYS, ETC.		46092	100.0 %	Rising

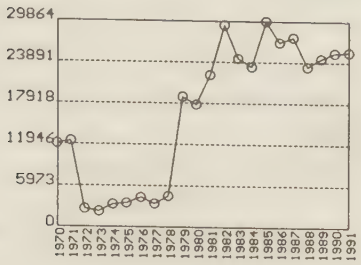
Proportion coming from declining catches.....	0.2 %
from stable catches.....	26.6 %
from rising catches.....	73.3 %

Major fishing countries ranked by 1990 production: Brazil:53.57%, Argentina:36.20%, Korea Rep:3.06%, Uruguay:2.76%, Spain:1.72%, Japan:1.04%, USSR:0.74%, Italy:0.68%, Other nei A:0.17%, Portugal:0.06%.

Table 7.9.2

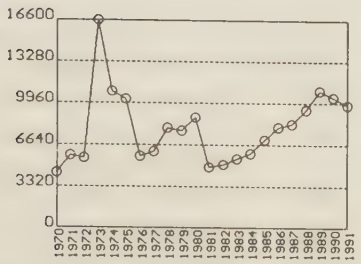
ATLANTIC, SOUTHWEST
Ranking order and proportions of sharks,rays,etc., in 1990,1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Sharks, rays, skates, etc	1	17726	1 47.7%	12100	1 50.8%
Skates and rays, nei	2	8810	2 23.7%	4400	3 18.5%
Patagonian smoothhound	3	5108	3 13.8%	5100	2 21.4%
Chola guitarfish	4	2510	4 6.8%	900	4 3.8%
Elephantfishes	5	1687	5 4.5%	300	7 1.3%
Sawfishes	6	1311	6 3.5%	400	6 1.7%
Liveroil sharks	7	7	7 0.0%	600	5 2.5%
Picked(=Spiny)dogfish	8	0	8 0.0%	0	8 0.0%
Smoothhounds	9	0	9 0.0%	0	9 0.0%
TOTALS		37159	100.0%	23800	100.0%



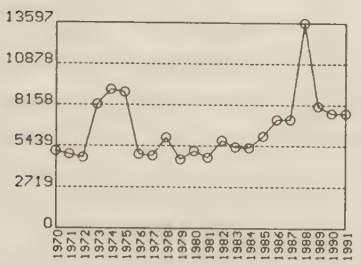
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Sharks, rays, skates, etc
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 27.15 %
Rank..... 1 of 6 based on:1990
Percent to total..... 54.95 % , Cumulative: 54.95 %



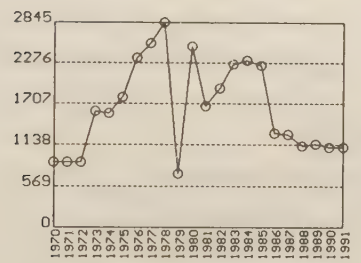
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Skates and rays, nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 2.81 %
Rank..... 2 of 6 based on:1990
Percent to total..... 22.67 % , Cumulative: 77.62 %



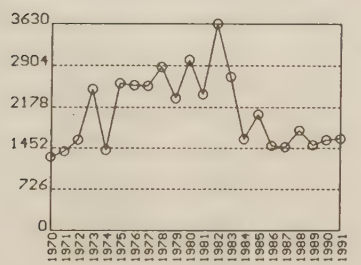
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Patagonian smoothhound
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 6.33 %
Rank..... 3 of 6 based on:1990
Percent to total..... 16.51 % , Cumulative: 94.13 %



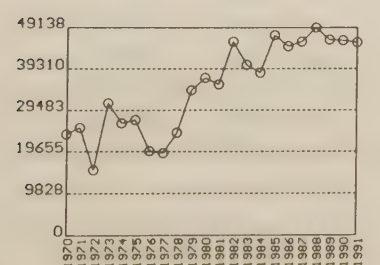
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Chola guitarfish
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 13 %
Trend..... -0.88 %
Rank..... 4 of 6 based on:1990
Percent to total..... 2.39 % , Cumulative: 96.51 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER SHARKS, RAYS, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 18 %
Trend..... -2.07 %
Rank..... 5 of 6 based on:1990
Percent to total..... 3.49 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL SHARKS, RAYS, ETC.
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 14.60 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

7.10 Production of crustaceans (ISSCAAP GROUPS 41-47).

Table 7.10.1

ATLANTIC, SOUTHWEST
Crustaceans (ISSCAAP GROUPS 41-47), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Penaeus shrimps nei	1	50589	59.0 %	Stable (+)
Marine crabs nei	2	13670	15.9 %	Stable (+)
Argentine red shrimp	3	9852	11.5 %	Rising
Caribbean spiny lobster	4	6200	7.2 %	Stable (+)
Dana swimcrab	5	4100	4.8 %	Stable (+)
Marine crustaceans nei	6	977	1.1 %	Declining
Argentine stiletto shrimp	7	197	0.2 %	Declining
Southern king crab	8	127	0.2 %	Stable (+)
Tropical spiny lobsters nei	9	25	0.0 %	Declining
TOTAL CRUSTACEANS		85737	100.0 %	Stable (+)

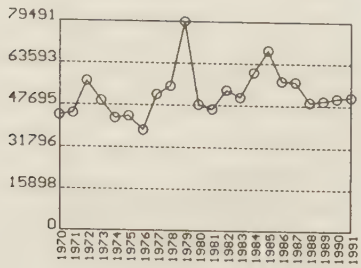
Proportion coming from declining catches.....	1.4 %
from stable catches.....	87.1 %
from rising catches.....	11.5 %

Major fishing countries ranked by 1990 production: Brazil:86.95%, Argentina:12.06%, Italy:0.60%, Japan:0.32%, Korea Rep:0.06%.

Table 7.10.2

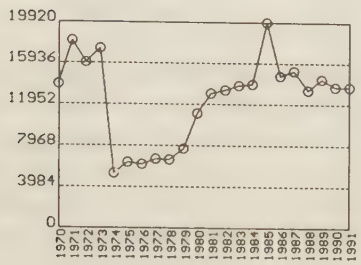
ATLANTIC, SOUTHWEST
Ranking order and proportions of crustaceans (ISSCAAP GROUPS 41-47), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Penaeus shrimps nei	1	48039	1 65.5%	43700	1 62.5%
Marine crabs nei	2	11098	2 15.1%	13900	2 19.9%
Argentine red shrimp	3	728	7 1.0%	200	7 0.3%
Caribbean spiny lobster	4	6218	3 8.5%	6800	3 9.7%
Dana swimcrab	5	4273	4 5.8%	3200	4 4.6%
Marine crustaceans nei	6	833	6 1.1%	0	9 0.0%
Argentine stiletto shrimp	7	74	10 0.1%	300	6 0.4%
Southern king crab	8	82	9 0.1%	200	8 0.3%
Tropical spiny lobsters nei	9	1805	5 2.5%	1600	5 2.3%
TOTALS		73311	100.0%	69900	100.0%



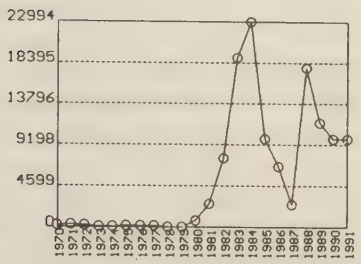
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Penaeus shrimps nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 10 %
Trend..... 2.69 %
Rank..... 1 of 6 based on:1990
Percent to total..... 59.00 % , Cumulative: 59.00 %



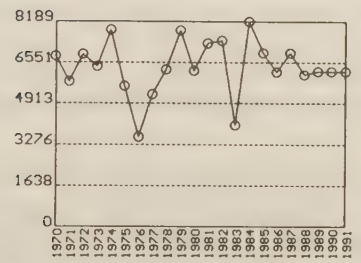
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marine crabs nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 4.33 %
Rank..... 2 of 6 based on:1990
Percent to total..... 15.94 % , Cumulative: 74.95 %



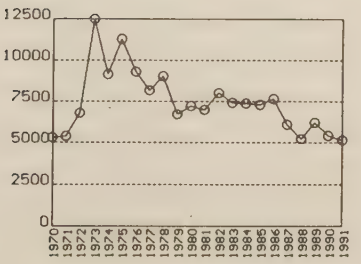
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Argentine red shrimp
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 46.62 %
Rank..... 3 of 6 based on:1990
Percent to total..... 11.49 % , Cumulative: 86.44 %



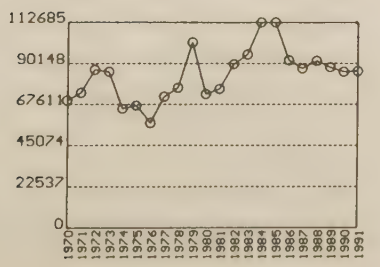
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Caribbean spiny lobster
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 22 %
Trend..... 0.36 %
Rank..... 4 of 6 based on:1990
Percent to total..... 7.23 % , Cumulative: 93.67 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER CRUSTACEANS
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 12 %
Trend..... -6.07 %
Rank..... 5 of 6 based on:1990
Percent to total..... 6.33 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL CRUSTACEANS
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 4.90 %
Rank..... 6 of 6 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

7.11 Production of molluscs (ISSCAAP GROUPS 51-58).

Table 7.11.1

ATLANTIC, SOUTHWEST
Molluscs (ISSCAAP GROUPS 51-58), ranked by 1990 catches

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Squids nei	1	434147	80.1 %	Sharp rise
Argentine shortfin squid	2	68781	12.7 %	Rising
Common squids	3	16220	3.0 %	Sharp rise
Patagonian squid	4	12273	2.3 %	Sharp rise
Marine molluscs nei	5	4542	0.8 %	Rising
River Plata mussel	6	3917	0.7 %	Declining
Octopuses	7	932	0.2 %	Rising
Scallops nei	8	442	0.1 %	Sharp decl
Cupped oysters nei	9	430	0.1 %	Rising
Cuttlefishes, bobtail squids	10	281	0.1 %	Sharp rise
Gastropods nei	11	224	0.0 %	Rising
Sevenstar flying squid	12	69	0.0 %	Sharp rise
Clams nei	13	43	0.0 %	Rising
Donax clams	14	1	0.0 %	Declining
Magellan mussel	15	0	0.0 %	Sharp decl
TOTAL MOLLUSCS		542302	100.0 %	Sharp rise

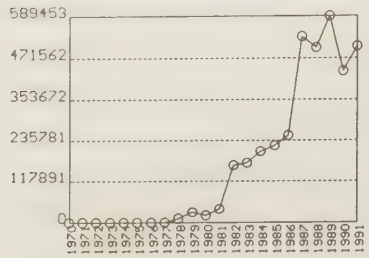
Proportion coming from declining catches.....	0.8 %
from stable catches.....	0.0 %
from rising catches.....	99.2 %

Major fishing countries ranked by 1990 production: Korea Rep:20.48%, USSR:19.10%, Japan:17.74%, Other nei A:14.75%, Spain:8.62%, Argentina:5.90%, Poland:5.83%, Germany NL:1.26%, Brazil:1.10%, Falkland Is:1.07%, Bulgaria:1.02%, Portugal:0.98%, Greece:0.75%, Italy:0.38%, Cuba:0.30%, Netherlands:0.27%, UK Engld Wal:0.25%, Uruguay:0.19%.

Table 7.11.2

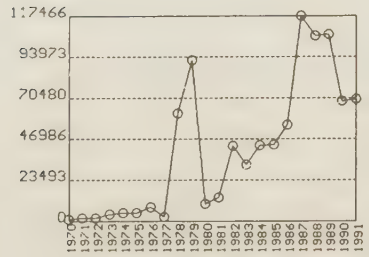
ATLANTIC, SOUTHWEST
Ranking order and proportions of molluscs (ISSCAAP GROUPS 51-58), in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-	CATCH (MT) -1970-	RANK AND PERCENT -1970-
Squids nei	1	19967	1 45.1%	0	11 0.0%
Argentine shortfin squid	2	9827	3 22.2%	1300	4 5.0%
Common squids	3	1024	5 2.3%	700	5 2.7%
Patagonian squid	4	0	14 0.0%	0	13 0.0%
Marine molluscs nei	5	11189	2 25.3%	2700	3 10.4%
River Plata mussel	6	1767	4 4.0%	6600	2 25.5%
Octopuses	7	195	6 0.4%	300	6 1.2%
Scallops nei	8	8	12 0.0%	14000	1 54.1%
Cupped oysters nei	9	178	7 0.4%	200	7 0.8%
Cuttlefishes, bobtail squids	10	0	13 0.0%	0	12 0.0%
Gastropods nei	11	31	11 0.1%	0	10 0.0%
Sevenstar flying squid	12	0	15 0.0%	0	14 0.0%
Clams nei	13	53	8 0.1%	0	15 0.0%
Donax clams	14	36	10 0.1%	0	9 0.0%
Magellan mussel	15	42	9 0.1%	100	8 0.4%
TOTALS		44317	100.0%	25900	100.0%



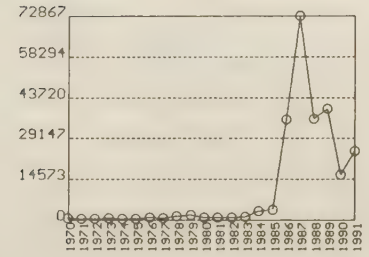
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Squids nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 60.00 %
Rank..... 1 of 12 based on:1990
Percent to total..... 80.06 % , Cumulative: 80.06 %



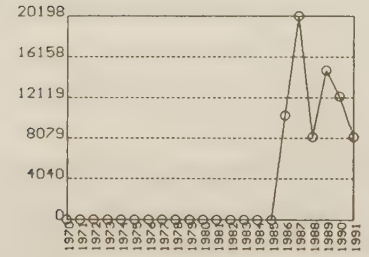
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Argentine shortfin squid
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 40.68 %
Rank..... 2 of 12 based on:1990
Percent to total..... 12.68 % , Cumulative: 92.74 %



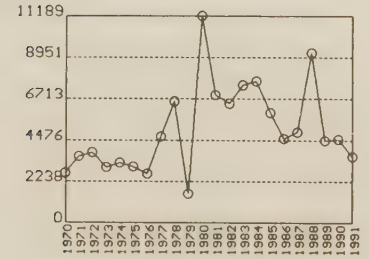
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Common squids
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 59.81 %
Rank..... 3 of 12 based on:1990
Percent to total..... 2.99 % , Cumulative: 95.73 %



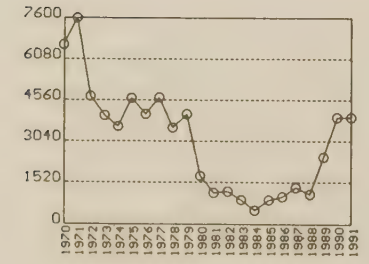
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Patagonian squid
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 67.94 %
Rank..... 4 of 12 based on:1990
Percent to total..... 2.26 % , Cumulative: 97.99 %



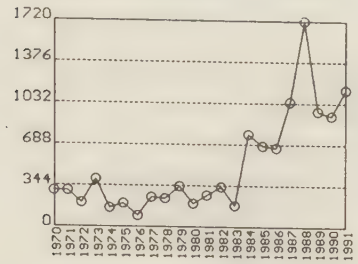
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marine molluscs nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 16 %
Trend..... 9.52 %
Rank..... 5 of 12 based on:1990
Percent to total..... 0.84 % , Cumulative: 98.83 %



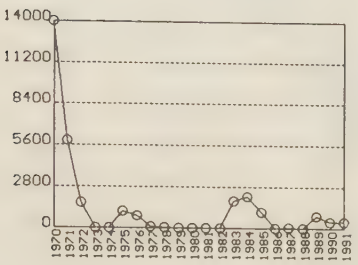
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....River Plata mussel
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend.....-23.02 %
Rank..... 6 of 12 based on:1990
Percent to total..... 0.72 % , Cumulative: 99.55 %



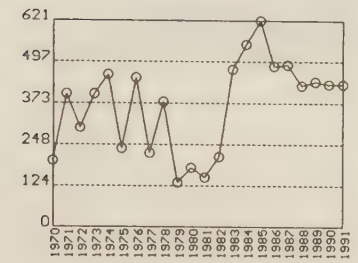
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Octopuses
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 33.71 %
Rank..... 7 of 12 based on:1990
Percent to total..... 0.17 % , Cumulative: 99.73 %



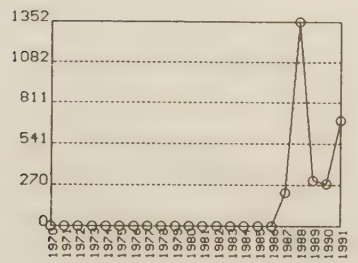
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Scallops nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 1 %
Trend.....-55.23 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.08 % , Cumulative: 99.81 %



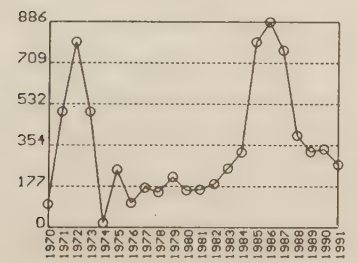
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cupped oysters nei
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 17 %
Trend..... 8.48 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.08 % , Cumulative: 99.89 %



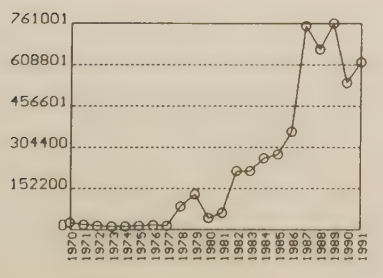
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Cuttlefishes, bobtail squids
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 5 %
Trend..... 73.54 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.05 % , Cumulative: 99.94 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER MOLLUSCS
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

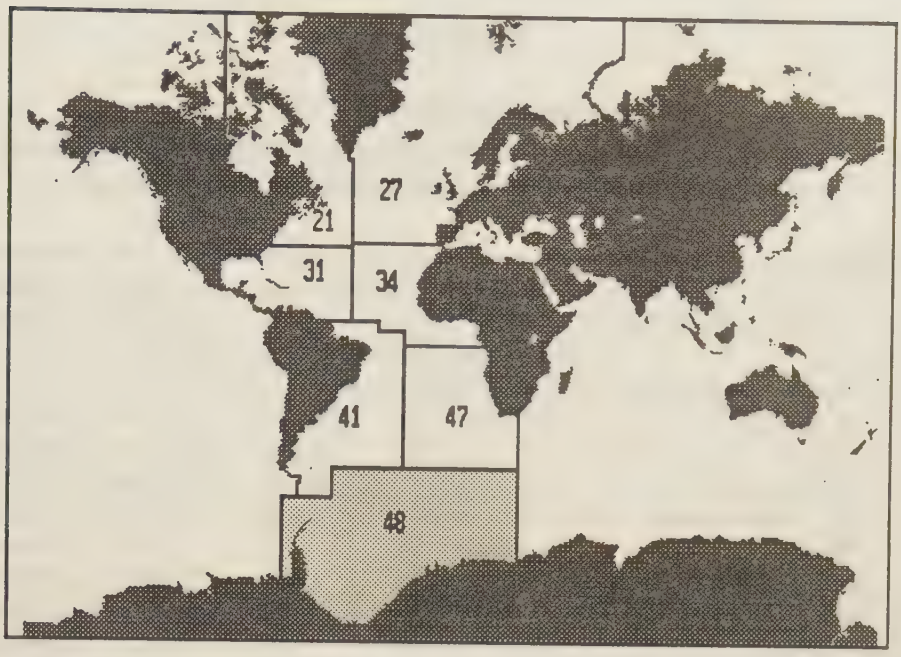
Fluctuation..... 8 %
Trend..... 8.67 %
Rank..... 11 of 12 based on:1990
Percent to total..... 0.06 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....TOTAL MOLLUSCS
Area.....ATLANTIC, SOUTHWEST
Unit.....Metric tons

Fluctuation..... 6 %
Trend..... 53.65 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

8. ATLANTIC, ANTARCTIC (Area 48)



8.1 Production of diadromous and marine fish, crustaceans and molluscs.

Table 8.1.1

ATLANTIC, ANTARCTIC
Diadromous and marine fish, crustaceans and molluscs
ranked by 1990 production

SPECIES	RANK IN 1990	CATCH (MT) 1990	PERCENT OF TOTAL	LINEAR TREND
Antarctic krill	1	350664	89.1 %	Rising
Lanternfishes	2	23623	6.0 %	Sharp rise
Mackerel icefish	3	10615	2.7 %	Rising
Patagonian toothfish	4	8311	2.1 %	Sharp rise
Humped rockcod	5	351	0.1 %	Rising
Patagonian rockcod	6	145	0.0 %	Rising
Squids nei	7	38	0.0 %	Sharp rise
Grey rockcod	8	24	0.0 %	Declining
Marbled rockcod	9	2	0.0 %	Sharp decl
Blackfin icefish	10	2	0.0 %	Stable (+)
South Georgia icefish	11	1	0.0 %	Declining
Antarctic rockcods,noties nei	12	0	0.0 %	Stable (-)
Icefishes nei	13	0	0.0 %	Rising
Southern blue whiting	14	0	0.0 %	Declining
Ocellated icefish	15	0	0.0 %	Declining
Spiny icefish	16	0	0.0 %	Declining
Gadiformes nei	17	0	0.0 %	Stable (-)
Sevenstar flying squid	18	0	0.0 %	Sharp rise
Skates and rays, nei	19	0	0.0 %	Rising
Yellowfin notie	20	0	0.0 %	Sharp decl
Antarctic silverfish	21	0	0.0 %	Rising
ALL SPECIES		393776	100.0 %	Rising

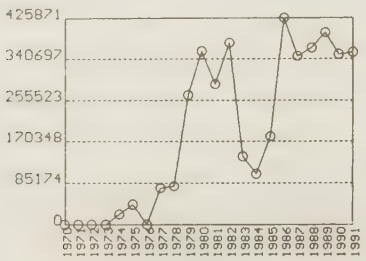
Proportion coming from declining catches.....	0.0 %
from stable catches.....	0.0 %
from rising catches.....	100.0 %

Major fishing countries ranked by 1990 production: USSR:87.03%, Japan:10.20%, Korea Rep:1.15%, Chile:1.15%, Poland:0.46%, UK Engld Wal:0.02%.

Table 8.1.2

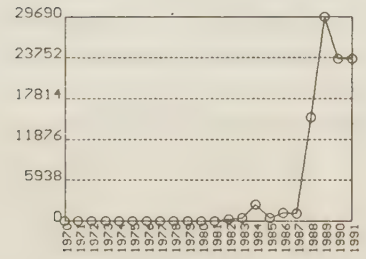
ATLANTIC, ANTARCTIC
Ranking order and proportions of diadromous and marine fish, crustaceans and molluscs, in 1990, 1980 and 1970

SPECIES	RANK IN 1990	CATCH (MT) -1980-	RANK AND PERCENT -1980-		CATCH (MT) -1970-	RANK AND PERCENT -1970-	
Antarctic krill	1	356978	1	79.7%	0	10	0.0%
Lanternfishes	2	0	18	0.0%	0	17	0.0%
Mackerel icefish	3	13910	3	3.1%	5800	2	1.4%
Patagonian toothfish	4	261	13	0.1%	0	12	0.0%
Humped rockcod	5	10306	4	2.3%	100	3	0.0%
Patagonian rockcod	6	7381	5	1.7%	0	4	0.0%
Squids nei	7	0	21	0.0%	0	20	0.0%
Grey rockcod	8	272	12	0.1%	0	11	0.0%
Marbled rockcod	9	45383	2	10.1%	403100	1	98.6%
Blackfin icefish	10	1440	10	0.3%	0	9	0.0%
South Georgia icefish	11	3122	7	0.7%	0	6	0.0%
Antarctic rockcods,noties nei	12	1853	8	0.4%	0	7	0.0%
Icefishes nei	13	1668	9	0.4%	0	8	0.0%
Southern blue whiting	14	27	15	0.0%	0	14	0.0%
Ocellated icefish	15	581	11	0.1%	0	21	0.0%
Spiny icefish	16	4320	6	1.0%	0	5	0.0%
Gadiformes nei	17	9	16	0.0%	0	15	0.0%
Sevenstar flying squid	18	0	17	0.0%	0	16	0.0%
Skates and rays, nei	19	224	14	0.1%	0	13	0.0%
Yellowfin notie	20	0	19	0.0%	0	18	0.0%
Antarctic silverfish	21	0	20	0.0%	0	19	0.0%
TOTALS		447735		100.0%	409000		100.0%



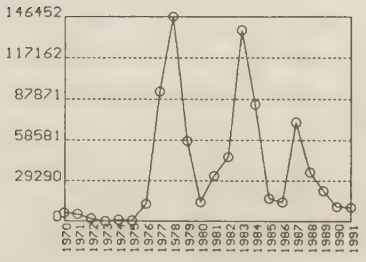
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Antarctic krill
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 38.72 %
Rank..... 1 of 12 based on:1990
Percent to total..... 89.05 % , Cumulative: 89.05 %



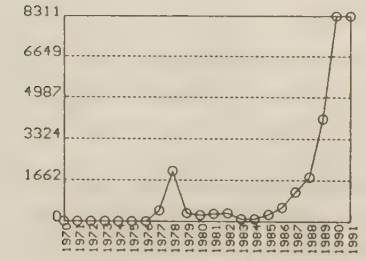
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Lanternfishes
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 76.61 %
Rank..... 2 of 12 based on:1990
Percent to total..... 6.00 % , Cumulative: 95.05 %



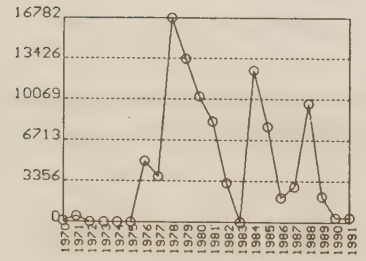
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Mackerel icefish
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 9 %
Trend..... 10.82 %
Rank..... 3 of 12 based on:1990
Percent to total..... 2.70 % , Cumulative: 97.75 %



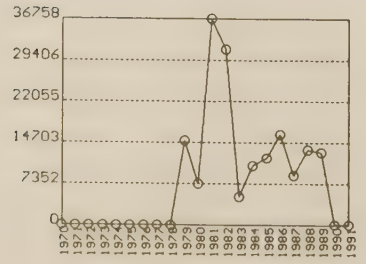
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Patagonian toothfish
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 1 %
Trend..... 67.34 %
Rank..... 4 of 12 based on:1990
Percent to total..... 2.11 % , Cumulative: 99.86 %



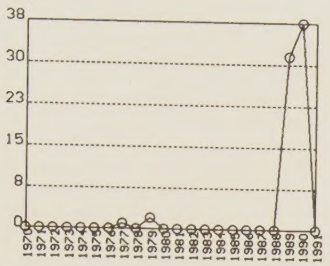
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Humped rockcod
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 14 %
Trend..... 9.38 %
Rank..... 5 of 12 based on:1990
Percent to total..... 0.09 % , Cumulative: 99.95 %



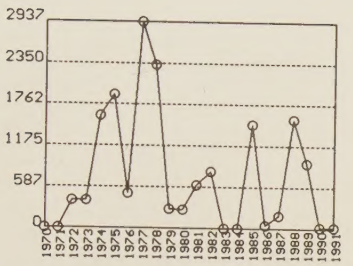
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Patagonian rockcod
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 11 %
Trend..... 25.76 %
Rank..... 6 of 12 based on:1990
Percent to total..... 0.04 % , Cumulative: 99.98 %



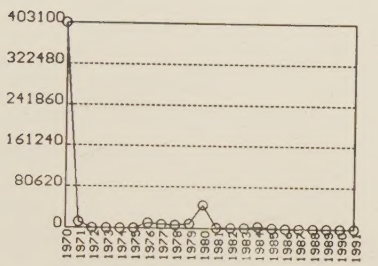
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Squids nei
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 3 %
Trend..... 74.63 %
Rank..... 7 of 12 based on:1990
Percent to total..... 0.01 % , Cumulative: 99.99 %



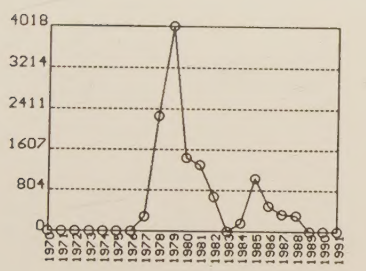
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Grey rockcod
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 15 %
Trend..... -8.77 %
Rank..... 8 of 12 based on:1990
Percent to total..... 0.01 % , Cumulative:100.00 %



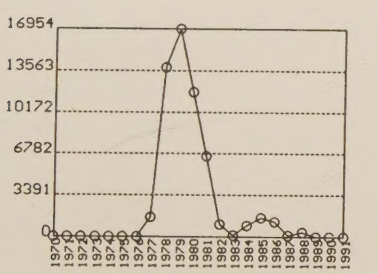
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Marbled rockcod
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 1 %
Trend.....-76.58 %
Rank..... 9 of 12 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



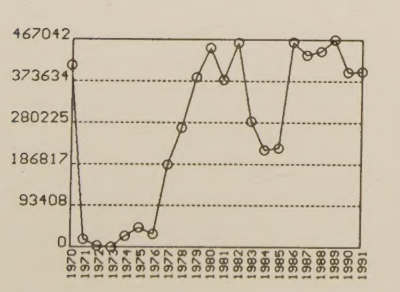
Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....Blackfin icefish
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 4 %
Trend..... 0.56 %
Rank..... 10 of 12 based on:1990
Percent to total..... 0.00 % , Cumulative:100.00 %



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....OTHER SPECIES
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 2 %
Trend..... -7.08 %
Rank.....
.....



Year range.....1970-1991
Country.....ALL COUNTRIES
Species.....ALL SPECIES
Area.....ATLANTIC, ANTARCTIC
Unit.....Metric tons

Fluctuation..... 7 %
Trend..... 24.41 %
Rank..... 12 of 12 based on:1990
Percent to total.....100.00 % , Cumulative:100.00 %

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